





## DIO3 Monoclonal Antibody

Catalog No         YP-mAb-02622           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB           Gene Name         DIO3           Protein Name         Type Ill iodothyronine deiodinase           Immunogen         The antiserum was produced against synthesized peptide derived from human DIO3. AA range:17-66           Specificity         DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse, IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-1:2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         DIO3; ITDI3; TXDI3; Type Ill iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-Ill 5'-deiodinase           Observed Band         31kD           Cell Pathway         Expressed in placenta and several fetal tissues.           Function         Catalytic activity:3.3'.5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), -incrioni Responsible for the deiodination of T4 (3.5'.3'-incriodothyronine) into RT3 (3.5'.4'diodo		
Reactivity Human; Mouse; Rat  Applications WB  Gene Name DIO3  Protein Name Type III idothyronine deiodinase  Immunogen The antiserum was produced against synthesized peptide derived from human DIO3. AA range: 17-66  Specificity DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse, IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-1:2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DIO3; ITDI3; TXDI3; Type III idothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5-deiodinase  Observed Band 31kD  Cell Pathway Cell membrane; Single-pass type II membrane protein . Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity Expressed in placenta and several fetal tissues.  Function Catalytic activity: 3,3',5'-triiodot-Lityronine + iodide + A + H(+) = L-thyroxine + AH(2), function: Responsible for the deiodination of T4 (3,5,3',5'-sterialodothyronine) into RT3 (3,3',5'-triiodothyronine) and T2 are inactive melabolites. May play a role in preventing premature exposure of development, function Responsible for the deiodination. Essential role for regulation of thyroid hormone inactivation during erronyological stabilities uses to adult levels of thyroid hormones. Can regulate circulation of thyroid hormone inactivation during erronyological development, function Responsible for the deiodination of T4 (3,5,3',5'-sterialodothyronine), similarity. Belongs to the lodothyronine deiodinase family, vilssue specificity. Expressed in placenta and several fetal tissues.  The protein encoded by this intronless gene belongs to the lodothyronine	Catalog No	YP-mAb-02622
Applications WB  Gene Name DIO3  Protein Name Type III iodothyronine deiodinase  Immunogen The antiserum was produced against synthesized peptide derived from human DIO3. AA range:17-66  Specificity DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse,IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-1:2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band 31kD  Cell Pathway Cell membrane; Single-pass type II membrane protein . Endosome membrane; Single-pass type II membrane protein .  Tissue Specificity Expressed in placenta and several fetal tissues.  Function Catalytic activity-3,3',5'-triiodo-L-thyronine + iodide +A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5',5',5',5',5',5',5',5',5',5',5',5',5'	Isotype	IgG
Gene Name         DIO3           Protein Name         Type III iodothyronine deiodinase           Immunogen         The antiserum was produced against synthesized peptide derived from human DIO3. AA range:17-66           Specificity         DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse,IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-1:2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase           Observed Band         31kD           Cell Pathway         Cell membrane; Single-pass type II membrane protein . Endosome membrane; Single-pass type II membrane protein .           Tissue Specificity         Expressed in placenta and several fetal tissues.           Function         catalytic activity:3,3'.5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3'.5'-teriaodothyronine) into T2 (3,3'-diiodothyronine) and of T3 (3,5'.5'-triiodothyronine) into T2 (3,3'-diiodothyronine) and of T3 (3,5'.5'-triiodothy	Reactivity	Human;Mouse;Rat
Protein Name         Type III iodothyronine deiodinase           Immunogen         The antiserum was produced against synthesized peptide derived from human DIO3. AA range:17-66           Specificity         DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse, IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-1:2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase           Observed Band         31kD           Cell Pathway         Cell membrane; Single-pass type II membrane protein.           Tissue Specificity         Expressed in placenta and several fetal tissues.           Function         catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T2 (3,3'-diodothyronine) RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout	Applications	WB
Immunogen         The antiserum was produced against synthesized peptide derived from human DIO3. AA range:17-66           Specificity         DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse,IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-1:2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase           Observed Band         31kD           Cell Pathway         Cell membrane; Single-pass type II membrane protein.           Tissue Specificity         Expressed in placenta and several fetal tissues.           Function         catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function; Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T2 (3,3'-diodothyronine) RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological devel	Gene Name	DIO3
DIO3. AA range:17-66  Specificity  DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.  Formulation  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Monoclonal, Mouse, IgG  Purification  The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-1:2000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band  31kD  Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T2 (3,3'-diiodothyronine) and of T3 (3,5',3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolities. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone protein encoded by this intronless gene belongs to the iodothyronine	Protein Name	Type III iodothyronine deiodinase
Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse, IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-1:2000  Concentration 1 mg/ml  Purity 290% Storage Stability -20°C/1 year  Synonyms DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band 31kD  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T2 (3,3'-diodothyronine) and of T3 (3,5',3'-5'-triiodothyronine) into T2 (3,3'-diodothyronine) and of T3 (3,5',3'-5'-tetraiodothyronine) into T3 (3,5',3'-5'-tetraiodothyronine) into T4 (3,5,3',5'-tetraiodothyronine) into T4 (3,5,3',5'-tetraiodothyronine) into T4 (3,5,3',5'-tetraiodothyronine) into T4 (4,5,3',5'-tetraiodothyronine) into	Immunogen	
Source       Monoclonal, Mouse, IgG         Purification       The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.         Dilution       WB 1:500-1:2000         Concentration       1 mg/ml         Purity       ≥90%         Storage Stability       -20°C/1 year         Synonyms       DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase         Observed Band       31kD         Cell Pathway       Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.         Tissue Specificity       Expressed in placenta and several fetal tissues.         Function       Catalytic activity: 3, 3', 5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-terraiodothyronine) into T2 (3,3'-diodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development, function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine), similarity:Belongs to the iodothyronine deiodinase family, tissue specificity:Expressed in placenta and several fetal tissues.         Background       The protein encoded by this intronless gene belongs to the iodothyronine	Specificity	DIO3 Monoclonal Antibody detects endogenous levels of DIO3 protein.
Purification  The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-1:2000  Concentration  1 mg/ml  Purity  290%  Storage Stability  -20°C/1 year  Synonyms  DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band  31kD  Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone inactivation during embryological development, function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine), similarity:Belongs to the iodothyronine deiodinase family, tissue specificity: Expressed in placenta and several fetal tissues.  The protein encoded by this intronless gene belongs to the iodothyronine	Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-1:2000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band  31kD  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-teriaodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5',3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embrylogical development, function:Responsible for the deiodination of T4 (3,5,5',5'-teriaodothyronine), similarity:Belongs to the iodothyronine deiodinase family, tissue specificity:Expressed in placenta and several fetal tissues.,  Background	Source	Monoclonal, Mouse,IgG
Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band 31kD  Cell Pathway Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity Expressed in placenta and several fetal tissues.  Function catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5',3'-tetraiodothyronine) into T2 (3,3'-dilodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development, function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine), similarity:Belongs to the iodothyronine deiodinase family, tissue specificity:Expressed in placenta and several fetal tissues.  Background The protein encoded by this intronless gene belongs to the iodothyronine	Purification	
Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band 31kD  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity Expressed in placenta and several fetal tissues.  Function catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family., tissue specificity:Expressed in placenta and several fetal tissues.,  The protein encoded by this intronless gene belongs to the iodothyronine	Dilution	WB 1:500-1:2000
Storage Stability  -20°C/1 year  DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  Observed Band  Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development, function:Responsible for the delodination of T4 (3,5,3',5'-tetraiodothyronine)., similarity:Belongs to the iodothyronine deiodinase family, tissue specificity:Expressed in placenta and several fetal tissues.,  Background  The protein encoded by this intronless gene belongs to the iodothyronine	Concentration	1 mg/ml
Synonyms  DIO3; ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase  31kD  Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetriaodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  Background  The protein encoded by this intronless gene belongs to the iodothyronine	Purity	≥90%
Type-III 5'-deiodinase  Observed Band  31kD  Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-didodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone, function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  Background  The protein encoded by this intronless gene belongs to the iodothyronine	Storage Stability	-20°C/1 year
Cell Pathway  Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein.  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2), function: Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  The protein encoded by this intronless gene belongs to the iodothyronine	Synonyms	
Single-pass type II membrane protein.  Tissue Specificity  Expressed in placenta and several fetal tissues.  Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  The protein encoded by this intronless gene belongs to the iodothyronine	Observed Band	31kD
Function  catalytic activity:3,3',5'-triiodo-L-thyronine + iodide + A + H(+) = L-thyroxine + AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  The protein encoded by this intronless gene belongs to the iodothyronine	Cell Pathway	Cell membrane ; Single-pass type II membrane protein . Endosome membrane ; Single-pass type II membrane protein .
AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase family.,tissue specificity:Expressed in placenta and several fetal tissues.,  Background  The protein encoded by this intronless gene belongs to the iodothyronine	Tissue Specificity	Expressed in placenta and several fetal tissues.
Background  The protein encoded by this intronless gene belongs to the iodothyronine deiodinase family. It catalyzes the inactivation of thyroid hormone by inner ring	Function	AH(2).,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development.,function:Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine).,similarity:Belongs to the iodothyronine deiodinase
	Background	The protein encoded by this intronless gene belongs to the iodothyronine deiodinase family. It catalyzes the inactivation of thyroid hormone by inner ring



## UpingBio technology Co.,Ltd





deiodination of the prohormone thyroxine (T4) and the bioactive hormone 3,3',5-triiodothyronine (T3) to inactive metabolites,
3,3',5-triiodothyronine (RT3) and 3,3'-diiodothyronine (T2),
respectively. This enzyme is highly expressed in pregnant uterus, placenta, fetal
and neonatal tissues, and thought to prevent premature exposure of developing
fetal tissues to adult levels of thyroid hormones. It regulates circulating fetal
thyroid hormone concentrations, and thus plays a critical role in mammalian
development. Knockout mice lacking this gene exhibit abnormalities related to development and reproduction, and increased activity of this enzyme in infants with hemangiomas causes severe hypothyroidism. This protei

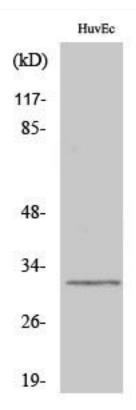
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western Blot analysis of various cells using DIO3 Monoclonal Antibody