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CYP24A1 Polyclonal Antibody

Catalog No YP-Ab-02570 Isotype IgG Reactivity Human;Rat;Mouse; Applications WB;HHC;IF;ELISA Gene Name CYP24A1 Protein Name 1,25-dihydroxyvitamin D(3) 24-hydroxylase mitochondrial Immunogen The antiserum was produced against synthesized peptide derived from human Cytochrome P450 24A1. AA range:411-460 Specificity CYP24A1 Polyclonal Antibody detects endogenous levels of CYP24A1 protein. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000. IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms CYP24A1; CYP24; 1; 25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-2CC4 Observed Band 38kD Cell Pathway Mitochondrion. Tissue Specificity PCR rescued clones,		
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Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms CYP24A1; CYP24; 1; 25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-CC24 Observed Band 38kD Cell Pathway Mitochondrion . Tissue Specificity PCR rescued clones, Function catalytic activity: Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)Ocafatorl-theme group, function-thas a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitrol (1-alpha, 25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcidiol talloging to 1-alpha, 25-dihydroxyvitamin D(3)-25, 23-lactone as denid product, similarity:Belongs to the cytochrome P450 family 4 superfamily of enzymes.	Immunogen	
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Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms CYP24A1; CYP24; 1; 25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-CC24 Observed Band 38kD Cell Pathway Mitochondrion . Tissue Specificity PCR rescued clones, catalytic activity: Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O., catalytic activity: Calcidirol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O., cofactor: Heme group., function: Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha, 25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylating activity leading to calcitric acid. It also shows 23-hydroxylating activity leading to 1-alpha, 25-dihydroxyvitamin D(3)-26,23-lactone as end product., similarity: Belongs to the cytochrome P450 family., Background	Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
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Synonyms CYP24A1; CYP24; 1; 25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-CC24 Observed Band 38kD Cell Pathway Mitochondrion PCR rescued clones, Function catalytic activity: Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O., catalytic activity: Calcitriol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O., cofactor: Heme group., function: Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha, 25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha, 25-dihydroxyvitamin D(3)-26, 23-lactone as end product., similarity: Belongs to the cytochrome P450 family. Background cytochrome P450 family 24 subfamily A member 1(CYP24A1) Homo sapiens This gene encodes a member of the cytochrome P450 superfamily of enzymes.	Purity	≥90%
24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-CC24 Observed Band 38kD Cell Pathway Mitochondrion . Tissue Specificity PCR rescued clones, Function catalytic activity: Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O., catalytic activity: Calcidiol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O., cofactor: Heme group., function: Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha, 25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha, 25-dihydroxyvitamin D(3)-26, 23-lactone as end product., similarity: Belongs to the cytochrome P450 family. Background cytochrome P450 family 24 subfamily A member 1(CYP24A1) Homo sapiens This gene encodes a member of the cytochrome P450 superfamily of enzymes.	Storage Stability	-20°C/1 year
Tissue Specificity PCR rescued clones, catalytic activity:Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O.,catalytic activity:Calcitriol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O.,cofactor:Heme group.,function:Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha,25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha,25-dihydroxyvitamin D(3)-26,23-lactone as end product.,similarity:Belongs to the cytochrome P450 family., Background Cytochrome P450 family 24 subfamily A member 1(CYP24A1) Homo sapiens This gene encodes a member of the cytochrome P450 superfamily of enzymes.	Synonyms	24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome
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Function catalytic activity:Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O.,catalytic activity:Calcitriol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O.,cofactor:Heme group.,function:Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha,25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha,25-dihydroxyvitamin D(3)-26,23-lactone as end product.,similarity:Belongs to the cytochrome P450 family., Cytochrome P450 family 24 subfamily A member 1(CYP24A1) Homo sapiens This gene encodes a member of the cytochrome P450 superfamily of enzymes.	Cell Pathway	Mitochondrion .
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This gene encodes a member of the cytochrome P450 superfamily of enzymes.	Function	H(2)O.,catalytic activity:Calcitriol + NADPH + O(2) = calcitetrol + NADP(+) + H(2)O.,cofactor:Heme group.,function:Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha,25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha,25-dihydroxyvitamin D(3)-26,23-lactone as end
	Background	This gene encodes a member of the cytochrome P450 superfamily of enzymes.



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reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

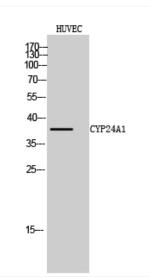
matters needing attention

Avoid repeated freezing and thawing!

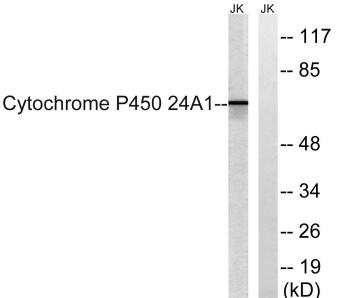
Usage suggestions

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

Products Images



Western Blot analysis of HUVEC cells using CYP24A1 Polyclonal Antibody



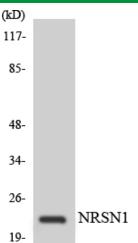
Western blot analysis of lysates from JurKat cells, using Cytochrome P450 24A1 Antibody. The lane on the right is blocked with the synthesized peptide.



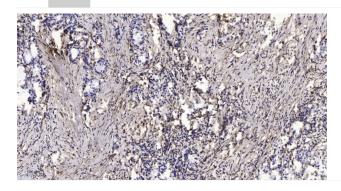
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Western blot analysis of the lysates from RAW264.7cells using C56D2 antibody.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).