

# **HES1 Monoclonal Antibody**

Immunogen         Synthesized peptide derived from part region of human protein           Specificity         HES1 Monoclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, 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         Observed Band           Cell Pathway         Nucleus.           Tissue Specificity         Kidney,Prostate,Skin,           Function         domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor secruited to specific target DNA by Hairy-related proteins, function. Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5°-CANNTG. With high affinity and on Lobox motifs: 5°-CANNTG. </th <th></th> <th></th>		
Reactivity Human;Rat;Mouse  Applications WB  Gene Name HES1 BHLHB39 HL HRY  Protein Name Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb3 (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) (Hairy and enhancer of split 1)	Catalog No	YP-mAb-07080
Applications WB  Gene Name HES1 BHLHB39 HL HRY  Protein Name Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb53 (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL)  Immunogen Synthesized peptide derived from part region of human protein  Specificity HES1 Monoclonal Antibody detects endogenous levels of protein.  Formulation Liquid in PBS containing 50% glycerol, 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  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney, Prostate, Skin, domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The b-HLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor recruited to specific target DNA by Hairy-related proteins, function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CANNTG.	Isotype	IgG
Gene Name         HES1 BHLHB39 HL HRY           Protein Name         Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb3 (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL)           Immunogen         Synthesized peptide derived from part region of human protein           Specificity         HES1 Monoclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, 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         Observed Band         30kD           Cell Pathway         Nucleus.           Function         domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The D-LH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity domain:The C-terminal WRPW motif is a transcriptional repressor of domain necessary for the interaction with Grouch	Reactivity	Human;Rat;Mouse
Protein Name Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb3 (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL) Immunogen Synthesized peptide derived from part region of human protein Specificity HES1 Monoclonal Antibody detects endogenous levels of protein.  Formulation Liquid in PBS containing 50% glycerol, 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  Observed Band 30kD  Cell Pathway Nucleus.  Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif; is required for transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The interaction with Groucho/TLE family members, transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CANNTG'. CANNTG'. CANNTG'.	Applications	WB
Immunogen         Synthesized peptide derived from part region of human protein           Specificity         HES1 Monoclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, 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         Observed Band           Cell Pathway         Nucleus.           Tissue Specificity         Kidney,Prostate,Skin,           Function         domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repressor secruited to specific target DNA by Hairy-related proteins, function. Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5°-CANNTG. With high affinity and on Lobox motifs: 5°-CANNTG. </td <td>Gene Name</td> <td>HES1 BHLHB39 HL HRY</td>	Gene Name	HES1 BHLHB39 HL HRY
Specificity HES1 Monoclonal Antibody detects endogenous levels of protein.  Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source Monoclonal, Mouse, lgG  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  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney, Prostate, Skin,  domain: Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain: The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif; is required for transcriptional repressor activity, "domain: The C-terminal WRPW motif; is a transcriptional repressor domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins, function: Transcriptional repressor of genes that require bHLH protein for their transcriptional repressors of genes that require bHLH protein for their transcriptional repressor of genes that require bHLH protein for their transcription and perfection of proteins in the protein of their transcription and perfection of genes that require bHLH protein for their transcription of MyOD1 and AS11. Binds DNA on N-box motifs: 5'-CANNTG3' with high affinity and on E-box motifs: 5'-CANNTG	Protein Name	Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb39) (Hairy and enhancer of split 1) (Hairy homolog) (Hairy-like protein) (hHL)
Formulation  Liquid in PBS containing 50% glycerol, 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  Observed Band  30kD  Cell Pathway  Nucleus.  Tissue Specificity  Kidney, Prostate, Skin,  domain: Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain: The bHLH, as well as cooperation between the central Orrange domain and the C-terminal WRPW motif, is required for transcriptional repression domain necessary for the interaction with GrouchOTLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins, function: Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CACNATG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' wit	Immunogen	Synthesized peptide derived from part region of human protein
Source   Monoclonal, Mouse,IgG	Specificity	HES1 Monoclonal Antibody detects endogenous levels of 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  ≥90%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  30kD  Cell Pathway  Nucleus.  Tissue Specificity  Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANTG),domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activitydomain:The C-terminal WRPW motif is a transcriptional repressor domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteinsfunction:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on Notifs: 5'-CANNTC's "CANNTC's" S'-CANNTC's "S'-CANNTC's" "S'-CANNTC's" S'-CANNTC's "S'-CANNTC's "S'-C	Formulation	Liquid in PBS containing 50% glycerol, 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  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity, domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins, function: Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CANNTG	Source	Monoclonal, Mouse,IgG
Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney,Prostate,Skin,  Function domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity,.domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins. function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTC	Purification	•
Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney,Prostate,Skin,  Function domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG), domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins., function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG	Dilution	WB 1:500-1:2000
Synonyms  Observed Band  Observed Band  Observed Band  Nucleus.  Kidney,Prostate,Skin,  Function  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG	Concentration	1 mg/ml
Synonyms  Observed Band 30kD  Cell Pathway Nucleus.  Tissue Specificity Kidney,Prostate,Skin,  Function domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG	Purity	≥90%
Observed Band  Observed Band  Nucleus.  Tissue Specificity  Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTO	Storage Stability	-20°C/1 year
Tissue Specificity  Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTO	Synonyms	
Tissue Specificity  Kidney,Prostate,Skin,  domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTO	Observed Band	30kD
domain:Has a particular type of basic domain (presence of a helix-interrupting proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTO	Cell Pathway	Nucleus.
proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG),domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTO	Tissue Specificity	Kidney,Prostate,Skin,
with low affinity.,similarity:Contains 1 basic helix-loop-helix (bHLH) d	Function	proline) that binds to the N-box (CACNAG), rather than the canonical E-box (CANNTG).,domain:The bHLH, as well as cooperation between the central Orange domain and the C-terminal WRPW motif, is required for transcriptional repressor activity.,domain:The C-terminal WRPW motif is a transcriptional repression domain necessary for the interaction with Groucho/TLE family members, transcriptional corepressors recruited to specific target DNA by Hairy-related proteins.,function:Transcriptional repressor of genes that require a bHLH protein for their transcription. May act as a negative regulator of

**Background** 

This protein belongs to the basic helix-loop-helix family of transcription factors. It is a transcriptional repressor of genes that require a bHLH protein for their transcription. The protein has a particular type of basic domain that contains a



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helix interrupting protein that binds to the N-box rather than the canonical E-box. [provided by RefSeq, Jul 2008],

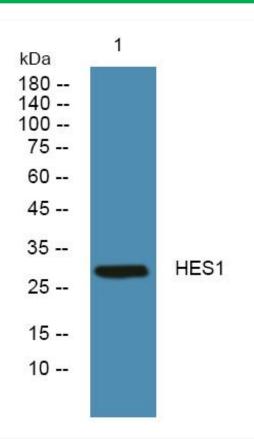
#### matters needing attention

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 various cells using HES1 Monoclonal Antibody