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Hes1 Antibody

Rabbit mAb
Catalog # AP90652

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q14469
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HES1; BHLHb39; HHL; HL; Hairy and enhancer of split 1; Hairy homolog; HRY; Hairy homolog (Drosophila); Transcription factor HES-1; Hairy-like protein; HES-1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	29541

Additional Information

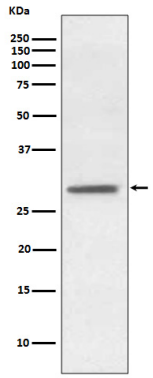
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Hes1
Description	HES1 (Hairy and Enhancer of Split 1) is one of seven members of the HES family of basic helix-loop-helix (bHLH) transcription factors which function primarily to repress transcription of bHLH-dependent genes. HES1 is understood to play an important conserved role in maintaining pluripotency of embryonic and adult stem/progenitor cells via the transcriptional repression of genes that promote differentiation.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	HES1
Synonyms	BHLHB39, HL, HRY
Function	Transcriptional repressor of genes that require a 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-3' with low affinity (By similarity). May play a role in a functional FA core complex response to DNA cross-link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage.

Cellular Location Nucleus.

Images



Western blot analysis of Hes1 expression in SH-SY5Y cell lysate.

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Immunohistochemical analysis of paraffin-embedded human liver, using Hes1 Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.