

HES1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21002c

Product Information

Application WB, E Primary Accession Q14469

Reactivity Human, Rat, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB51476Calculated MW29541

Additional Information

Gene ID 3280

Other Names 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, HES1,

BHLHB39, HL, HRY

Target/Specificity This HES1 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 259-293 amino acids from the

C-terminal region of human HES1.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions HES1 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

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.

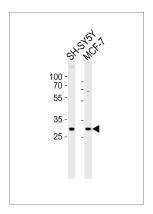
Background

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.

References

Feder J.N.,et al.Genomics 20:56-61(1994). Yao J.,et al.Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004). Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. Takata T.,et al.Biochem. Biophys. Res. Commun. 301:250-257(2003).

Images



Western blot analysis of lysates from SH-SY5Y, MCF-7 cell line (from left to right), using HES1 Antibody (C-term)(Cat. #AP21002c). AP21002c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

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