

## **HES1 / HES-1 Antibody (N-Terminus)**

Rabbit Polyclonal Antibody Catalog # ALS14498

### **Specification**

## HES1 / HES-1 Antibody (N-Terminus) - Product Information

Application WB, IHC Primary Accession Q14469

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 30kDa KDa

### HES1 / HES-1 Antibody (N-Terminus) - 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

#### **Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

#### **Precautions**

HES1 / HES-1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

#### HES1 / HES-1 Antibody (N-Terminus) - 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 monoubiguitination in response to DNA damage.

#### **Cellular Location**

Nucleus.

#### **Volume**

50 µl

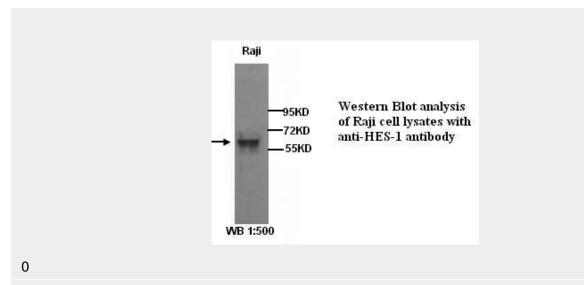


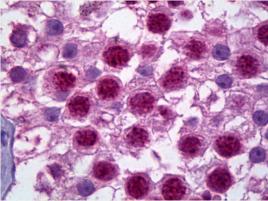
# HES1 / HES-1 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# HES1 / HES-1 Antibody (N-Terminus) - Images

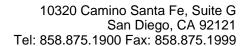




Anti-HES1 antibody IHC of human testis.

## HES1 / HES-1 Antibody (N-Terminus) - 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.





# HES1 / HES-1 Antibody (N-Terminus) - 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).