

**HES1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP14023a****Specification**

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**HES1 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [Q14469](#)

**HES1 Antibody (N-term) Blocking peptide - 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**

The synthetic peptide sequence used to generate the antibody AP14023a was selected from the N-term region of HES1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HES1 Antibody (N-term) Blocking peptide - 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.

### **HES1 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **HES1 Antibody (N-term) Blocking peptide - Images**

### **HES1 Antibody (N-term) Blocking peptide - 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 helix interrupting protein that binds to the N-box rather than the canonical E-box.

### **HES1 Antibody (N-term) Blocking peptide - References**

Espinosa, L., et al. Cancer Cell 18(3):268-281(2010) Wang, X., et al. J. Cancer Res. Clin. Oncol. 136(7):989-996(2010) Sang, L., et al. Trends Mol Med 16(1):17-26(2010) Duan, L., et al. Front Biosci (Elite Ed) 2, 1065-1072 (2010) :Coad, R.A., et al. Biochem. Cell Biol. 87(6):975-987(2009)