



## Rabbit Anti-HES6 antibody

SL11852R

<b>Product Name:</b>	HES6
<b>Chinese Name:</b>	转录因子HES6抗体
<b>Alias:</b>	bHLHb41; bHLHc23; C HAIRY1; Class B basic helix-loop-helix protein 41; Hairy and enhancer of split 6; HES 6; Transcription cofactor HES6; HES6_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	24kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human HES6:1-80/224
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The Drosophila hairy and Enhancer of split genes encode basic helix-loop-helix (bHLH) transcriptional repressors that function in the Notch signaling pathway and control segmentation and neural development during embryogenesis. The mammalian homologues of Drosophila hairy and Enhancer of split are the HES gene family members, HES1-6, which also encode bHLH transcriptional repressors that regulate myogenesis and neurogenesis. The HES family members form a complex with TLE, the

mammalian homologue of Groucho, and this interaction is mediated by the carboxy terminal WRPW motif of the HES proteins. The HES/TLE complex functions by directly binding to DNA, instead of interfering with activator proteins. Most HES family members, including HES1 and HES5, preferentially bind to the N box (CACNAG) as opposed to the E box (CANNTG). HES2 binds to both N and E box sites, while HES6 does not bind DNA. Rather, HES6 inhibits HES1 activity, thereby promoting transcription. HES1 and HES2 are expressed in a variety of adult and embryonic tissues. HES3 is expressed exclusively in cerebellar Purkinje cells, and HES5 is found solely in the nervous system. HES6 is produced in brain as well as in the limb buds of developing embryos.

**Function:**

HES6 is a transcription cofactor that itself does not bind to DNA but suppresses both HES1-mediated N box-dependent transcriptional repression and binding of HES1 to E box sequences. It also suppresses HES1-mediated inhibition of the heterodimer formed by ASCL1/MASH1 and TCFEA2/E47, allowing ASCL1 and TCFEA2 to upregulate transcription in its presence. HES6 appears to have novel functions in tumour and cancer cell lines, although these have not yet been elucidated fully.

**Subunit:**

Transcription repression requires formation of a complex with a corepressor protein of the Groucho/TLE family. Interacts with HES1

**Subcellular Location:**

Nuclear

**Similarity:**

Contains 1 bHLH (basic helix-loop-helix) domain.  
Contains 1 Orange domain.

**SWISS:**

Q96HZ4

**Gene ID:**

55502

**Database links:**

[Entrez Gene: 55502](#)Human

[Entrez Gene: 55927](#)Mouse

[Entrez Gene: 316626](#)Rat

[Omim: 610331](#)Human

[SwissProt: Q96HZ4](#)Human

[SwissProt: Q9JHE6](#)Mouse

[Unigene: 42949](#)Human

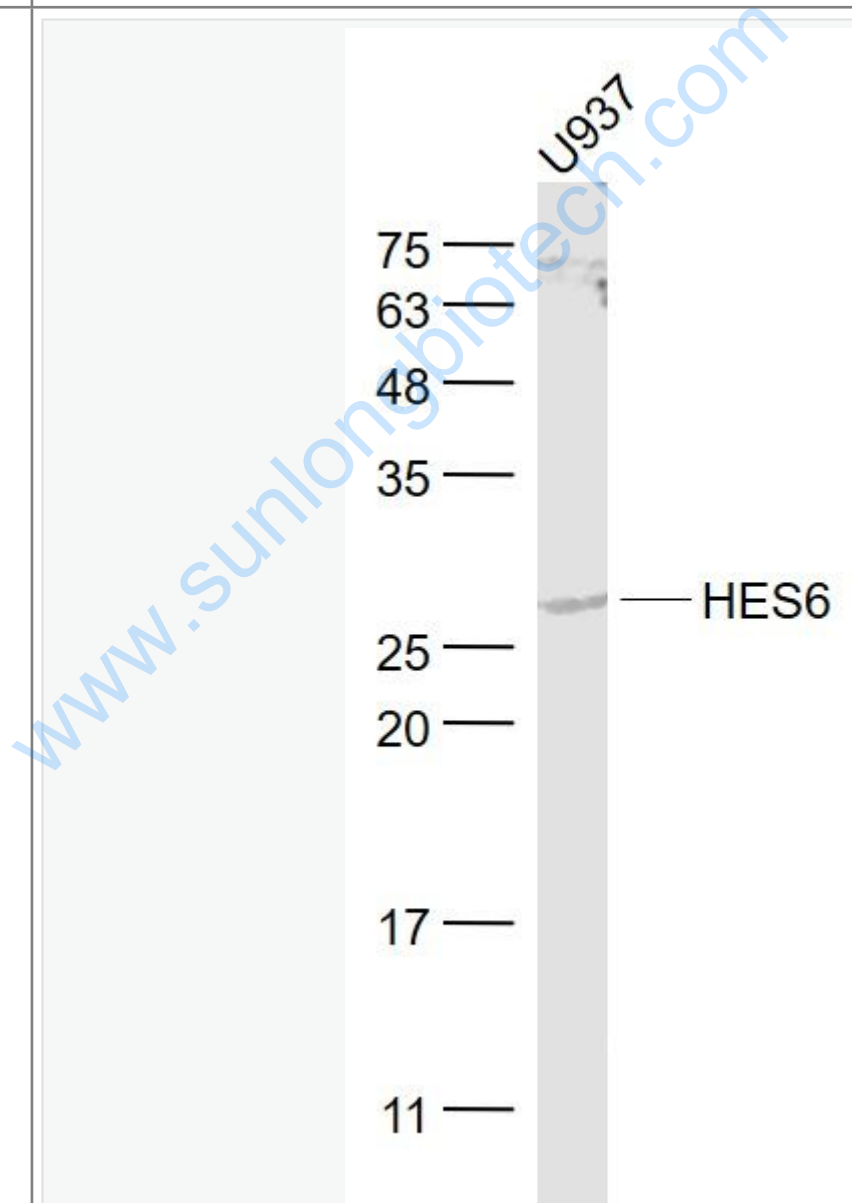
[Unigene: 280029](#)Mouse

[Unigene: 11980](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

U937(Human) Cell Lysate at 30 ug

Primary: Anti- HES6 (SL11852R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 26 kD

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