SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-HES4 antibody

Catalog Number: SL11567R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HES4
Immunogen:	KLH conjugated synthetic peptide derived from human HES4: 1-100/221
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Dog,Pig,Horse)
Predicted MW.:	24kDa
Subcellular Location:	The nucleus
Background:	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

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

	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:** HES4 may be a transcriptional repressor. It is expressed in stomach, pancreas, ovary, uterus, eye and bone. It has an N-terminal bHLH domain. **Subunit:** Transcription repression requires formation of a complex with a corepressor protein of the Groucho/TLE family **Subcellular Location:** Nuclear **Similarity:** Contains 1 bHLH (basic helix-loop-helix) domain. Contains 1 Orange domain. **Database links:** **Entrez Gene:** 57801 Human **SwissProt:** Q5SVA5 Human **SwissProt:** Q9HCC6 Human **Unigene:** 154029 Human

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