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[Marker Primary Antibody]

Rabbit Anti-HES2/Biotin Conjugated antibody

Catalog Number: SL12383R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HES2/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human HES2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Cow,Horse)
Background:	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

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	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:** Transcriptional repressor of genes that require a bHLH protein for their transcription. **Subunit:** Transcription repression requires formation of a complex with a corepressor protein of the Groucho/TLE family (By similarity). **Subcellular Location:** Nuclear. **Tissue Specificity:** Expressed in placenta, pancreatic cancer, colon cancer with RER, cervical cancer, and in head and neck tumors. **Similarity:** Contains 1 bHLH (basic helix-loop-helix) domain. Contains 1 Orange domain. **Database links:** **Entrez Gene:** 54626 Human **Entrez Gene:** 15206 Mouse **Entrez Gene:** 29567 Rat Omim: 609970 Human **SwissProt:** Q9Y543 Human **SwissProt:** O54792 Mouse **SwissProt:** P35429 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.