

Product datasheet for **AP20454PU-N**

HES6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of HES-6 protein. (region surrounding Ala6)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~30 kDa
Gene Name:	hes family bHLH transcription factor 6
Database Link:	Entrez Gene 55502 Human Q96HZ4



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Background:

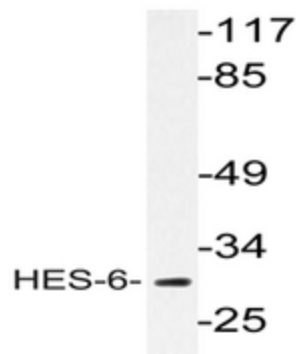
The *Drosophila* hairy and enhancer of split genes encode basic helix-loop-helix (bHLH) transcriptional repressors that function in the notch signaling pathway and control segmentation and neural development during embryogenesis. The mammalian homologues of *Drosophila* hairy and enhancer of split are 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 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.

Synonyms:

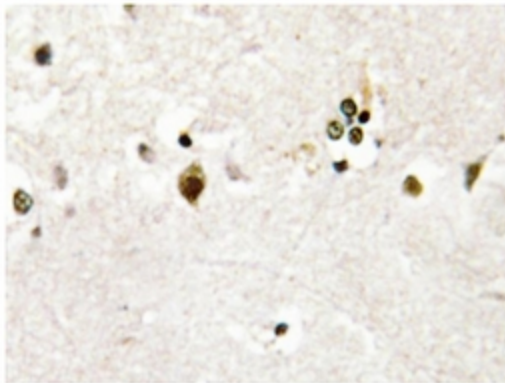
Transcription cofactor HES-6, C-HAIRY1, BHLHB41

Protein Families:

Druggable Genome, Transcription Factors

Product images:

Western blot analysis of HES-6 antibody (Cat.-No AP20454PU-N) in extracts from HeLa cells.



Immunohistochemistry analysis of HES-6 antibody (Cat.-No AP20454PU-N) in paraffin-embedded human brain tissue.