Data Sheet (Cat.No.TMAC-01815)

TargetMol

Anti-Hes1 Antibody (4D589)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 30 kDa.
Clone:	4D589
Purification:	ProA affinity purified

Applications

Application:	FCM,ICC/IF,IHC,WB
Recommended	WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q14469
Synonyms:	HES1;Hairy/enhancer of split, Drosophila, homolog of, 1;Hairy and enhancer of split 1; FLJ20408;Class B basic helix-loop-helix protein 39;c-hairy1A;HES-1;Hairy Homolog;HRY; Transcription factor HES 1;C-HAIRY1;HAIRY1;Hairy homolog(Drosophila);Hairy and enhancer of split 1(Drosophila);Hairy like;Hairy, Drosophila, homolog of;HL;RHL;Hes1 hairy and enhancer of split 1(Drosophila);bHLHb39;Hairy-like protein;HHL;Hairy Enhancer of Split 1;Transcription factor HES-1.

Research 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 homolog 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 homolog 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481