

HES7 Rabbit pAb

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Catalog # AP54834

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9BYE0
Predicted	Human, Mouse, Rat, Dog, Pig, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24899
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human HES7
Epitope Specificity	21-100/225
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 Orange domain.
SUBUNIT	Transcription repression requires formation of a complex with a corepressor protein of the Groucho/TLE family (By similarity).
DISEASE	Defects in HES7 are the cause of spondylocostal dysostosis type 4 (SCDO4) [MIM:613686]. A rare condition of variable severity characterized by vertebral and costal anomalies. The main feature include dwarfism, vertebral fusion, hemivertebrae, posterior rib fusion, reduced rib number, and other rib malformations.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HES7 is a 225 amino acid transcriptional repressor protein. Localized to the nucleus, HES7 represses transcription of N box- and E box-containing promoters. HES7, along with family member HES1, is thought to cooperatively regulate somite formation in the presomitic mesoderm. HES7 may also be essential for coordinated somite segmentation by acting as a segmentation clock. HES7 contains one basic helix-loop-helix (bHLH) domain and one Orange domain. Mutations in HES7 have been found to cause spondylocostal dysostosis, an autosomal recessive disorder characterized by deformities of the chest and spine.

Additional Information

Gene ID	84667
Other Names	Transcription factor HES-7, hHes7, Class B basic helix-loop-helix protein 37, bHLHb37, Hairy and enhancer of split 7, bHLH factor Hes7, HES7, BHLHB37
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

0-10000

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name HES7

Synonyms BHLHB37

Function Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation (By similarity).

Cellular Location Nucleus.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.