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HEY1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16153

Product Information

Application	WB
Primary Accession	Q9Y5J3
Other Accession	NP_036390
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32613

Additional Information

Gene ID	23462
Alias Symbol	HEY1, BHLHB31, CHF2, HERP2, HESR1, HRT1,
Other Names	Hairy/enhancer-of-split related with YRPW motif protein 1, Cardiovascular helix-loop-helix factor 2, CHF-2, Class B basic helix-loop-helix protein 31, bHLHb31, HES-related repressor protein 1, Hairy and enhancer of split-related protein 1, HESR-1, Hairy-related transcription factor 1, HRT-1, hHRT1, HEY1, BHLHB31, CHF2, HERP2, HESR1, HRT1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-HEY1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	HEY1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HEY1
Synonyms	BHLHB31, CHF2, HERP2, HESR1, HRT1
Function	Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3' (PubMed:11095750). Downstream effector of Notch signaling required for cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself criticial for cardiac valve and septum development. May be required in conjunction with HEY2 to specify arterial cell fate or identity. Promotes

	maintenance of neuronal precursor cells and glial versus neuronal fate specification. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6 and by the neuronal bHLH factors ASCL1/MASH1 and NEUROD4/MATH3 (PubMed:15485867). Involved in the regulation of liver cancer cells self-renewal (PubMed:25985737).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00380, ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:26068074}
Tissue Location	Expressed in the somitic mesoderm, the central nervous system, the kidney, the heart, nasal epithelium, and limbs

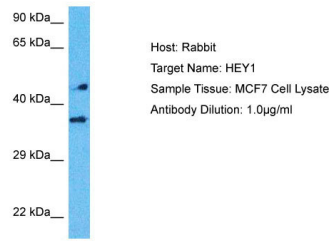
Background

Downstream effector of Notch signaling which may be required for cardiovascular development. Transcriptional repressor which binds preferentially to the canonical E box sequence 5'- CACGTG-3'. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6.

References

Kokubo H.,et al.Biochem. Biophys. Res. Commun. 260:459-465(1999).
Leimeister C.,et al.Mech. Dev. 85:173-177(1999).
Steidl C.,et al.Genomics 66:195-203(2000).
Chin M.T.,et al.J. Biol. Chem. 275:6381-6387(2000).
Iso T.,et al.Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.

Images



Host: Rabbit
Target Name: HEY1
Sample Tissue: MCF7 Whole Cell lysates
Antibody Dilution: 1.0µg/ml