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HEY1 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16153

Specification

HEY1 Antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q9Y5J3
Other Accession	NP_036390
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**33kDa KDa**

HEY1 Antibody - C-terminal region - 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.

HEY1 Antibody - C-terminal region - 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}

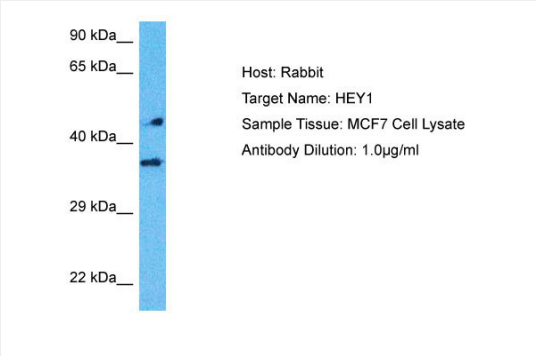
Tissue Location
Expressed in the somitic mesoderm, the central nervous system, the kidney, the heart, nasal epithelium, and limbs

HEY1 Antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HEY1 Antibody - C-terminal region - Images



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

HEY1 Antibody - C-terminal region - 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.

HEY1 Antibody - C-terminal region - 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).
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