10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HEY1 Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant HEY1.
Catalog # AT2358a

Product Information

Application	WB, IF, E
Primary Accession	Q9Y5J3
Other Accession	NM_012258
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1F11
Calculated MW	32613

Additional Information

Gene ID	23462
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
Target/Specificity	HEY1 (NP_036390, 121 a.a. ~ 220 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~10ug/ml E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HEY1 Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

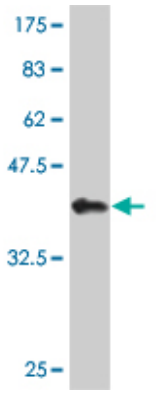
Background

This gene encodes a nuclear protein belonging to the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcriptional repressors. Expression of this gene is induced by the Notch and c-Jun signal transduction pathways. Two similar and redundant genes in mouse are required for embryonic cardiovascular development, and are also implicated in neurogenesis and somitogenesis. Alternative splicing results in multiple transcript variants.

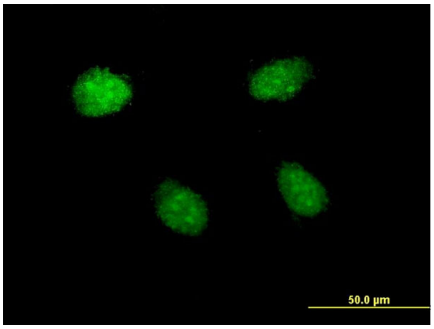
References

The Notch effector Hey1 associates with myogenic target genes to repress myogenesis. Buas MF, et al. J Biol Chem, 2010 Jan 8. PMID 19917614. HEY1 Leu94Met gene polymorphism dramatically modifies its biological functions. Villaronga MA, et al. Oncogene, 2010 Jan 21. PMID 19802006. High-density association study of 383 candidate genes for volumetric BMD at the femoral neck and lumbar spine among older men. Yerges LM, et al. J Bone Miner Res, 2009 Dec. PMID 19453261. Kaposi's sarcoma-associated herpesvirus RTA promotes degradation of the Hey1 repressor protein through the ubiquitin proteasome pathway. Gould F, et al. J Virol, 2009 Jul. PMID 19369342. Hey1 basic helix-loop-helix protein plays an important role in mediating BMP9-induced osteogenic differentiation of mesenchymal progenitor cells. Sharff KA, et al. J Biol Chem, 2009 Jan 2. PMID 18986983.

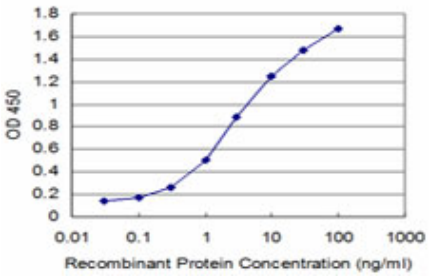
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Immunofluorescence of monoclonal antibody to HEY1 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged HEY1 is approximately 0.1ng/ml as a capture antibody.

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