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HEY1 Antibody (monoclonal) (M09)

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

Specification

HEY1 Antibody (monoclonal) (M09) - Product Information

Application	**IF, WB, E**
Primary Accession	Q9Y5J3
Other Accession	NM_012258
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**32613**

HEY1 Antibody (monoclonal) (M09) - 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

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.

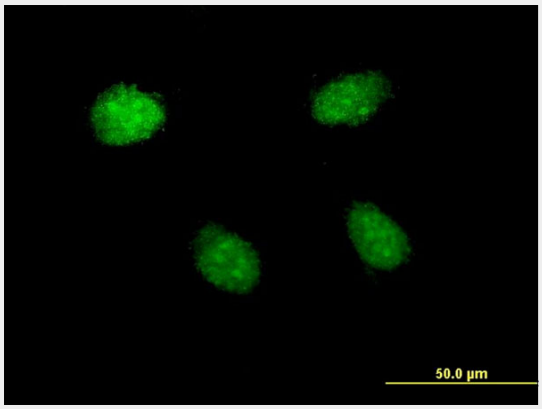
HEY1 Antibody (monoclonal) (M09) - Protocols

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

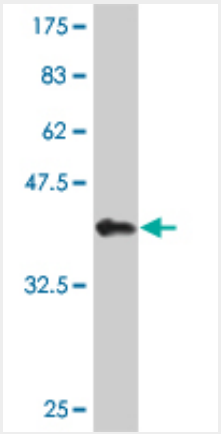
- Western Blot

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

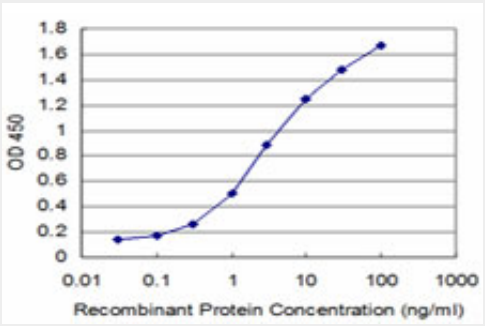
HEY1 Antibody (monoclonal) (M09) - Images



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



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



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

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HEY1 Antibody (monoclonal) (M09) - 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.

HEY1 Antibody (monoclonal) (M09) - 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.