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HOXB1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant HOXB1.
Catalog # AT2409a

Specification

HOXB1 Antibody (monoclonal) (M05) - Product Information

Application	**WB, E**
Primary Accession	P14653
Other Accession	NM_002144
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**32193**

HOXB1 Antibody (monoclonal) (M05) - Additional Information

Gene ID 3211

Other Names
Homeobox protein Hox-B1, Homeobox protein Hox-2I, HOXB1, HOX2I

Target/Specificity
HOXB1 (NP_002135, 1 a.a. ~ 74 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
HOXB1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

HOXB1 Antibody (monoclonal) (M05) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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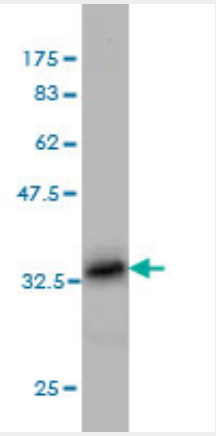
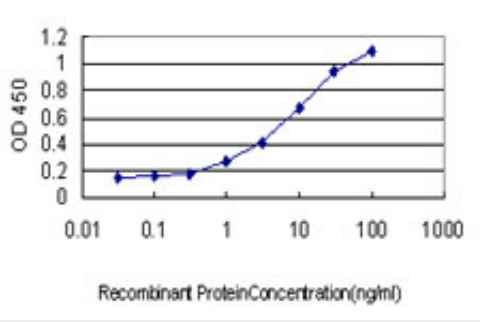
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HOXB1 Antibody (monoclonal) (M05) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.88 KDa) .



Detection limit for recombinant GST tagged HOXB1 is approximately 0.3ng/ml as a capture antibody.

HOXB1 Antibody (monoclonal) (M05) - Background

This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXB genes located in a cluster on chromosome 17.

HOXB1 Antibody (monoclonal) (M05) - References

Candidate gene study of HOXB1 in autism spectrum disorder. Muscarella LA, et al. Mol Autism, 2010 May 25. PMID 20678259.Genome-wide association study reveals multiple loci associated with primary tooth development during infancy. Pillas D, et al. PLoS Genet, 2010 Feb 26. PMID 20195514.Induction of HoxB transcription by retinoic acid requires actin polymerization. Ferrai C, et al. Mol Biol Cell, 2009 Aug. PMID 19477923.UTX and JMJD3 are histone H3K27 demethylases involved in HOX gene regulation and development. Agger K, et al. Nature, 2007 Oct 11. PMID 17713478.Lack of association of HOXA1 and HOXB1 variants with autism in the Indian population. Sen B, et al. Psychiatr Genet, 2007 Feb. PMID 17167333.