

**HOXB1 Antibody (monoclonal) (M05)****Mouse monoclonal antibody raised against a partial recombinant HOXB1.****Catalog # AT2409a****Specification**

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**HOXB1 Antibody (monoclonal) (M05) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P14653</a>
Other Accession	<a href="#">NM_002144</a>
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-2l, HOXB1, HOX2l

**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

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**

HOXB1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

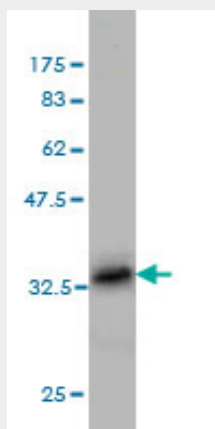
**HOXB1 Antibody (monoclonal) (M05) - Protocols**

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

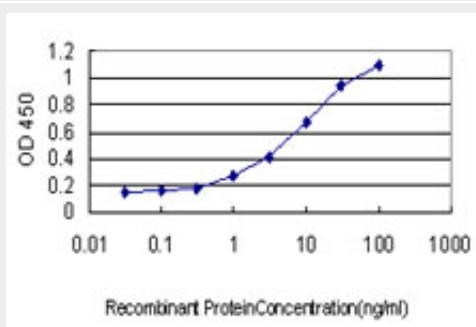
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.