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HOXB1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant HOXB1.
Catalog # AT2408a

Product Information

Application	WB
Primary Accession	P14653
Other Accession	NM_002144
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1E3
Calculated MW	32193

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) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

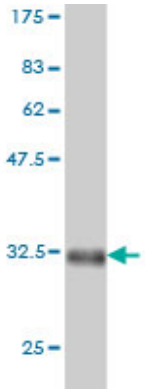
This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different 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.

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.

Images



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

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