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HOXD8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HOXD8.
Catalog # AT2429a

Product Information

Application	WB, E
Primary Accession	P13378
Other Accession	NM_019558
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	10F8
Calculated MW	31911

Additional Information

Gene ID	3234
Other Names	Homeobox protein Hox-D8, Homeobox protein Hox-4E, Homeobox protein Hox-54, HOXD8, HOX4E
Target/Specificity	HOXD8 (NP_062458, 126 a.a. ~ 190 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	HOXD8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

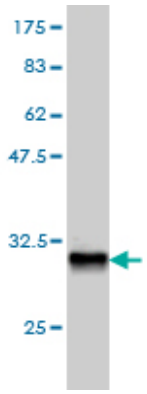
Background

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 HOXD genes located in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. In addition to effects during embryogenesis, this particular gene may also play a role in adult urogenital tract function.

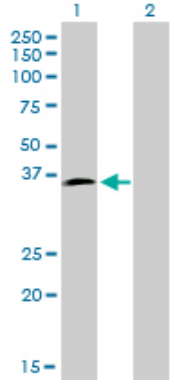
References

Altered transmission of HOX and apoptotic SNPs identify a potential common pathway for clubfoot. Ester AR, et al. Am J Med Genet A, 2009 Dec. PMID 19938081.Identification of targets of Prox1 during in vitro vascular differentiation from embryonic stem cells: functional roles of HoxD8 in lymphangiogenesis. Harada K, et al. J Cell Sci, 2009 Nov 1. PMID 19825936.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.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Limb malformations and the human HOX genes. Goodman FR. Am J Med Genet, 2002 Oct 15. PMID 12357469.

Images

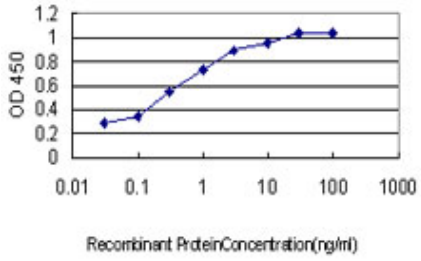


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.89 KDa) .

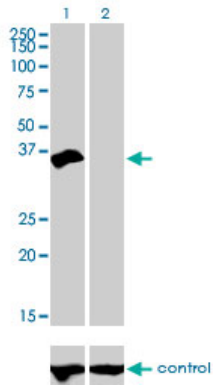


Western Blot analysis of HOXD8 expression in transfected 293T cell line by HOXD8 monoclonal antibody (M01), clone 10F8.

Lane 1: HOXD8 transfected lysate(31.8 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged HOXD8 is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of HOXD8 over-expressed 293 cell line, cotransfected with HOXD8 Validated Chimera RNAi ((Cat # AT2429a)

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