

HOXD3 Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant HOXD3.

Catalog # AT2428a

Product Information

Application	WB, IF, E
Primary Accession	P31249
Other Accession	NM_006898
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1B12
Calculated MW	45730

Additional Information

Gene ID	3232
Other Names	Homeobox protein Hox-D3, Homeobox protein Hox-4A, HOXD3, HOX1D, HOX4A
Target/Specificity	HOXD3 (NP_008829, 334 a.a. ~ 431 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	HOXD3 Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

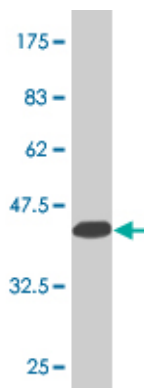
Background

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 at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5' end of this cluster have been associated with severe limb and genital abnormalities. The protein encoded by this gene may play a role in the regulation of cell adhesion processes.

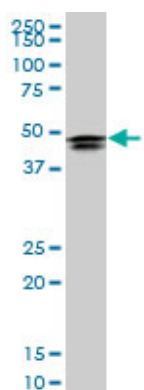
References

DNA methylation of HOXD3 as a marker of prostate cancer progression. Kron KJ, et al. Lab Invest, 2010 Jul. PMID 20212450. 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. 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. Discovery of novel hypermethylated genes in prostate cancer using genomic CpG island microarrays. Kron K, et al. PLoS One, 2009. PMID 19283074. Inactivation of HOXA genes by hypermethylation in myeloid and lymphoid malignancy is frequent and associated with poor prognosis. Strathdee G, et al. Clin Cancer Res, 2007 Sep 1. PMID 17785556.

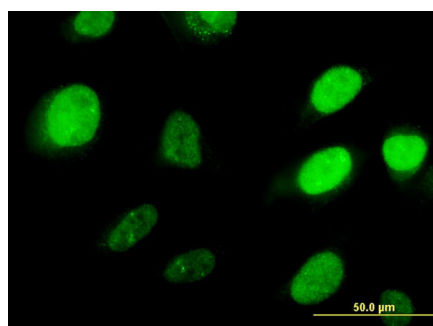
Images



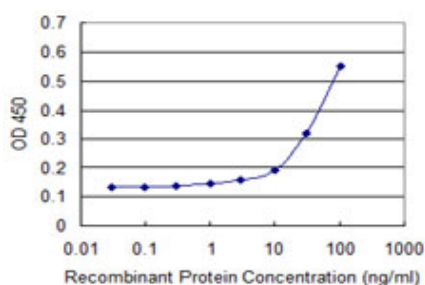
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



HOXD3 monoclonal antibody (M09), clone 1B12. Western Blot analysis of HOXD3 expression in HeLa S3 NE (Cat # AT2428a)



Immunofluorescence of monoclonal antibody to HOXD3 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged HOXD3 is approximately 10ng/ml as a capture antibody.

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