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# HOXD8 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant HOXD8.
Catalog # AT2430a

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P13378 |
| **Other Accession** | NM_019558 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 Kappa |
| **Clone Names** | 5E12 |
| **Calculated MW** | 31911 |

## Additional Information

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

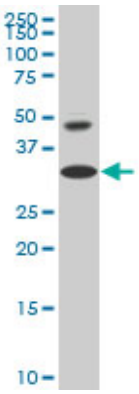
## Background

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 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




HOXD8 monoclonal antibody (M03), clone 5E11 Western Blot analysis of HOXD8 expression in HepG2 ( Cat # L019V1 ).

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