HOXD13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HOXD13, Polyclonal Antibody
Full Product Name	HOXD13, ID (HOXD13, HOX4I, Homeobox protein Hox-D13, Homeobox protein Hox-4I) (MaxLight 405)
Product Gene Name	anti-HOXD13 antibody
Product Synonym Names	HOXD13; HOX4I; Homeobox protein Hox-D13; Homeobox protein Hox-4I
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	phenotype 610713
3D Structure	ModBase 3D Structure for P35453
Immunogen	HOXD13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-230 amino acids from the Central region of human HOXD13.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-HOXD13 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-HOXD13 antibody	Western Blot (WB), FLISA
Application Notes for anti-HOXD13 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HOXD13 antibody	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. Mutations in this particular gene cause synpolydactyly.
Product References and Citations for anti-HOXD13 antibody	Sugie, Y., et al. Brain Dev. 32(5):356-361(2010). Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009). Salsi, V., et al. Mol. Cell. Biol. 29(21):5775-5788(2009). Cantile, M., et al. Int. J. Cancer 125(7):1532-1541(2009). Wajid, M., et al. Clin. Genet. 76(3):300-302(2009).
Other Notes	Small volumes of anti-HOXD13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for HOXD13 purchase	MBS6308138 is an antibody targeting HOXD13. Also known as HOXD13, ID (HOXD13, HOX4I, Homeobox protein Hox-D13, Homeobox protein Hox-4I) (MaxLight 405). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HOXD13. It may not necessarily be applicable to this product.

NCBI GI #	116734702
NCBI GeneID	3239
NCBI Accession #	NP_000514
UniProt Primary Accession #	P35453
UniProt Related Accession #	P35453
GenBank Nucleotide #	NP_000514.2
NCBI Official Full Name	homeobox protein Hox-D13
NCBI Official Synonym Full Names	homeobox D13
NCBI Official Symbol	HOXD13
NCBI Official Synonym Symbols	BDE; SPD; BDSD; SPD1; HOX4I
UniProt Protein Name	Homeobox protein Hox-D13
UniProt Synonym Protein Names	Homeobox protein Hox-4I
Protein Family	Homeobox protein
UniProt Gene Name	HOXD13
UniProt Synonym Gene Names	HOX4I
UniProt Entry Name	HXD13_HUMAN
NCBI Protein Information	homeobox protein Hox-D13

UniProt Comments for HOXD13	HOXD13: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Defects in HOXD13 are the cause of synpolydactyly 1 (SPD1); also known as syndactyly type 2 (SDTY2). SPD1 is a limb malformation that shows a characteristic manifestation in both hands and feet. This condition is inherited as an autosomal dominant trait with reduced penetrance. Defects in HOXD13 are the cause of brachydactyly type D (BDD). BDD is characterized by short and broad terminal phalanges of the thumbs and big toes. Inheritance is autosomal dominant. Defects in HOXD13 are the cause of syndactyly type 5 (SDTY5); also known as syndactyly with metacarpal and metatarsal fusion. The metacarpals and metatarsals most commonly fused are the 4th and 5th or the 3rd and 4th. Soft tissue syndactyly usually affects the 3rd and 4th fingers and the 2nd and 3rd toes. Inheritance is autosomal dominant. Defects in HOXD13 are the cause of brachydactyly- syndactyly syndrome (BDSD). Most of affected individuals exhibit generalized shortening of the hands and feet, broad and short distal phalanges of the thumbs, and cutaneous syndactyly of toes 2 and 3. The limb phenotypes observed in this syndrome overlap those of brachydactyly types A4, D, E and syndactyly type 1. Defects in HOXD13 are the cause of brachydactyly type E (BDE1). BDE is characterized by shortening of the fingers mainly in the metacarpals and metatarsals. Inheritance is autosomal dominant. Defects in HOXD13 are a cause of VACTERL association (VACTERL); which includes also VATER association. VACTERL is an acronym for vertebral anomalies, anal atresia, congenital cardiac disease, tracheoesophageal fistula, renal anomalies, radial dysplasia, and other limb defects. Belongs to the Abd-B homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: nucleus Molecular Function: DNA binding; sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: anterior/posterior pattern formation; transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; multicellular organismal development; male genitalia development; positive regulation of transcription from RNA polymerase II promoter; embryonic digit morphogenesis; skeletal development; regulation of cell proliferation; embryonic hindgut morphogenesis Disease: Synpolydactyly 1; Brachydactyly-syndactyly Syndrome; Brachydactyly, Type E1; Syndactyly, Type V; Brachydactyly, Type D; Vater Association
Research Articles on HOXD13	**1.** a heterozygous nonsense mutation in the HOXD13 gene was newly identified in two patients with mild phenotypes of synpolydactyly.
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