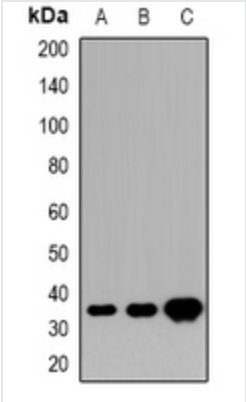
HOXD13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HOXD13, Polyclonal Antibody
Full Product Name	Rabbit anti-HOXD13 Antibody
Product Gene Name	anti-HOXD13 antibody
Product Synonym Names	HOX4I; Homeobox protein Hox-D13; Homeobox protein Hox-4I
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	36,101 Da
OMIM	phenotype 610713
3D Structure	ModBase 3D Structure for P35453
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HOXD13. The exact sequence is proprietary.
Product Categories/Family for anti-HOXD13 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-HOXD13 antibody	Western Blot (WB)
Application Notes for anti-HOXD13 antibody	WB: 1:500-1:2000
Related Product Information for anti-HOXD13 antibody	MBS4507145 is an antibody targeting HOXD13. Also known as Rabbit anti-HOXD13 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Western Blot (WB) of anti-HOXD13 antibody
Western blot analysis of HOXD13 expression in U87MG (A), mouse brain (B), rat brain (C) whole cell lysates.

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_000514.2
UniProt Primary Accession #	P35453
UniProt Secondary Accession #	P70217
UniProt Related Accession #	P35453
GenBank Nucleotide #	NM_000523.3
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; 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; homeo box 4I; homeo box D13; homeobox protein Hox-4I
NCBI Summary for HOXD13	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. [provided by RefSeq, Jul 2008]

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.** Identification of a novel c.659G>C (p.Gly220Ala) mutation outside the HOXD13 homeodomain responsible for synpolydactyly in a Chinese family.
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