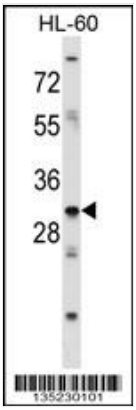
HOXB9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HOXB9, Polyclonal Antibody
Full Product Name	HOXB9 Antibody (Center)
Product Gene Name	anti-HOXB9 antibody
Product Synonym Names	Homeobox protein Hox-B9; Homeobox protein Hox-25; Homeobox protein Hox-2E; HOXB9; HOX2E
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Mouse)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This HOXB9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-176 amino acids from the Central region of human HOXB9.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	HOXB9 peptide (MBS9221544) is used for blocking the activity of HOXB9 antibody (MBS9205956)
Molecular Weight	28059
Immunogen Sequence Positions	148-176
OMIM	142964
3D Structure	ModBase 3D Structure for P17482
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Applications Tested/Suitable for anti-HOXB9 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-HOXB9 antibody	WB~~1:1000
Related Product Information for anti-HOXB9 antibody	HOXB9 is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded nuclear protein functions as a sequence-specific transcription factor that is involved in cell proliferation and differentiation. Increased expression of this gene is associated with some cases of leukemia, prostate cancer and lung cancer.

Product References and Citations for anti-HOXB9 antibody	Hayashida, T., et al. Proc. Natl. Acad. Sci. U.S.A. 107(3):1100-1105(2010) Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009) Rouault, K., et al. Osteoarthr. Cartil. 17(8):1099-1105(2009) Nguyen, D.X., et al. Cell 138(1):51-62(2009) Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Other Notes	Small volumes of anti-HOXB9 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 HOXB9 purchase	MBS9205956 is an antibody targeting HOXB9. Also known as HOXB9 Antibody (Center). Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit.



Western Blot (WB) of anti-HOXB9 antibody
HOXB9 Antibody (Center) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the HOXB9 antibody detected the HOXB9 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HOXB9. It may not necessarily be applicable to this product.

NCBI GI #	15029508
NCBI GeneID	3219
NCBI Accession #	NP_076922.1
UniProt Primary Accession #	P17482
UniProt Secondary Accession #	Q9H1I1; B2RDB7
UniProt Related Accession #	P17482
GenBank Nucleotide #	NM_024017.4
NCBI Official Full Name	homeobox protein Hox-B9
NCBI Official Synonym Full Names	homeobox B9
NCBI Official Symbol	HOXB9
NCBI Official Synonym Symbols	HOX2; HOX2E; HOX-2.5
UniProt Protein Name	Homeobox protein Hox-B9
UniProt Synonym Protein Names	Homeobox protein Hox-2.5; Homeobox protein Hox-2E
Protein Family	Homeobox protein
UniProt Gene Name	HOXB9
UniProt Synonym Gene Names	HOX2E
UniProt Entry Name	HXB9_HUMAN

NCBI Protein Information	homeobox protein Hox-B9
NCBI Summary for HOXB9	This gene is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded nuclear protein functions as a sequence-specific transcription factor that is involved in cell proliferation and differentiation. Increased expression of this gene is associated with some cases of leukemia, prostate cancer and lung cancer. [provided by RefSeq, Jul 2008]
UniProt Comments for HOXB9	HOXB9: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Belongs to the Abd-B homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: nucleoplasm; mitochondrion Molecular Function: protein binding; sequence-specific DNA binding Biological Process: anterior/posterior pattern formation; mammary gland development; transcription, DNA-dependent; embryonic skeletal development; positive regulation of transcription from RNA polymerase II promoter; Wnt receptor signaling pathway through beta-catenin
Research Articles on HOXB9	**1.** Identification of the transcription factor binding site of the HOXB9 promoter region suggests that E2F1 is a direct regulator of HOXB9 expression in breast cancer.
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