HOXB9 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HOXB9, Monoclonal Antibody
Full Product Name	HOXB9 (Homeobox B9, HOX-2.5, HOX2, HOX2E) (MaxLight 490)
Product Gene Name	anti-HOXB9 antibody
Product Synonym Names	Homeobox B9; HOX-2.5; HOX2; HOX2E
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	200000000
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes HOXB9.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28,059 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (46698518..46703835, complement). Location: 17q21.3
OMIM	142964
3D Structure	ModBase 3D Structure for P17482
Immunogen	HOXB9 (NP_076922.1, 65aa-163aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PLSPHASGSLPSVYHPYIQPQGVPPAESRYLRTWLEPAPRGEAAPGQGQAAVKAEPLLGAPGELLKQGTPEYSLETSAGREAVLSNQRPGYGDNKICEG
Conjugate	MaxLight490
Product Categories/Family for anti-HOXB9 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-HOXB9 antibody	Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-HOXB9 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-HOXB9 antibody	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]
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	MBS6206723 is an antibody targeting HOXB9. Also known as HOXB9 (Homeobox B9, HOX-2.5, HOX2, HOX2E) (MaxLight 490). Host: Mouse.

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; homeo box 2E; homeo box B9; homeobox protein Hox-2E; homeobox protein Hox-2.5
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.** The expression of HOXB9, its relationship to clinical factors in breast cancer and efficacy as a prognostic factor were discussed.
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