HOXA9 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HOXA9, Recombinant Protein
Full Product Name	Recombinant Human HOXA9
Product Gene Name	HOXA9 recombinant protein
Product Synonym Names	ABD B; homeobox A9; Homeobox protein Hox 1G; Homeobox protein Hox A9; HOX1; HOX1.7; HOX1G; HOXA9
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 85% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	272
Sequence Positions	1-272
OMIM	142956
3D Structure	ModBase 3D Structure for P31269
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 500ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for HOXA9 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for HOXA9 recombinant protein	MBS7614781 is a recombinant protein targeting HOXA9. Also known as Recombinant Human HOXA9. Host: E Coli.
Other Notes	Small volumes of HOXA9 recombinant protein 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HOXA9. It may not necessarily be applicable to this product.

NCBI GI #	6166219
NCBI GeneID	3205
NCBI Accession #	P31269.4
UniProt Primary Accession #	P31269
UniProt Secondary Accession #	O43369; O43429; Q99820
UniProt Related Accession #	P31269
NCBI Official Full Name	Homeobox protein Hox-A9

NCBI Official Synonym Full Names	homeobox A9
NCBI Official Symbol	HOXA9
NCBI Official Synonym Symbols	HOX1; ABD-B; HOX1G; HOX1.7
UniProt Protein Name	Homeobox protein Hox-A9
UniProt Synonym Protein Names	Homeobox protein Hox-1G
Protein Family	Homeobox protein
UniProt Gene Name	HOXA9
UniProt Synonym Gene Names	HOX1G
UniProt Entry Name	HXA9_HUMAN
NCBI Protein Information	homeobox protein Hox-A9; homeobox protein Hox-1G; homeodomain protein HOXA9
NCBI Summary for HOXA9	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. This gene is highly similar to the abdominal-B (Abd-B) gene of Drosophila. A specific translocation event which causes a fusion between this gene and the NUP98 gene has been associated with myeloid leukemogenesis. Read-through transcription exists between this gene and the upstream homeobox A10 (HOXA10) gene.[provided by RefSeq, Mar 2011]
UniProt Comments for HOXA9	HOXA9: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Required for induction of E-selectin and VCAM-1, on the endothelial cells surface at sites of inflammation. A chromosomal aberration involving HOXA9 is found in a form of acute myeloid leukemia. Translocation t(7;11)(p15;p15) with NUP98. A chromosomal aberration involving HOXA9 may contribute to disease progression in chronic myeloid leukemia. Translocation t(7;17)(p15;q23) with MSI2. Belongs to the Abd-B homeobox family. Protein type: DNA-binding; Oncoprotein Chromosomal Location of Human Ortholog: 7p15.2 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleus Molecular Function: protein binding; enzyme binding; sequence-specific DNA binding Biological Process: embryonic forelimb morphogenesis; negative regulation of myeloid cell differentiation; transcription, DNA-dependent; multicellular organismal development; embryonic skeletal development; male gonad development; uterus development; endothelial cell activation; anterior/posterior pattern formation; regulation of transcription, DNA-dependent; mammary gland development; single fertilization; spermatogenesis; proximal/distal pattern formation
Research Articles on HOXA9	**1.** These findings indicate that HOXA9 contributes to poor outcomes in Epithelial ovarian cancer in part by promoting intraperitoneal dissemination via its induction of P-cadherin.
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