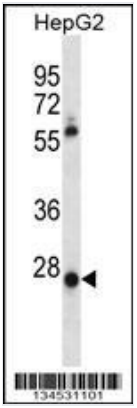
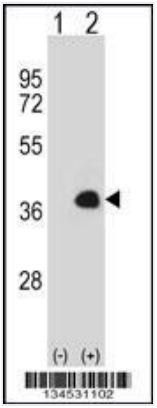
MEOX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

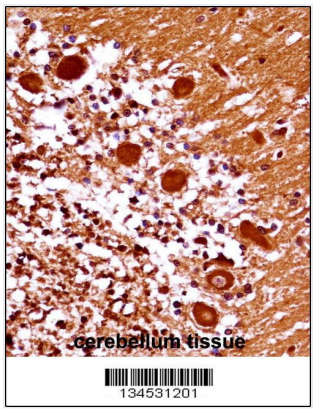
Product Name	MEOX1, Polyclonal Antibody
Full Product Name	MEOX1, ID (MEOX1, MOX1, Homeobox protein MOX-1, Mesenchyme homeobox 1) (AP)
Product Gene Name	anti-MEOX1 antibody
Product Synonym Names	MEOX1; MOX1; Homeobox protein MOX-1; Mesenchyme homeobox 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	phenotype 600147
3D Structure	ModBase 3D Structure for P50221
Immunogen	MEOX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-165 amino acids from the Central region of human MEOX1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-MEOX1 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-MEOX1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MEOX1 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MEOX1 antibody	This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the molecular signaling network regulating somite development. Alternatively spliced transcript variants encoding different isoforms have been described.
Product References and Citations for anti-MEOX1 antibody	Vatanavicharn, N., et al. Am. J. Med. Genet. A 143A (19), 2292-2302 (2007): Wissmuller, S., et al. Nucleic Acids Res. 34(6):1735-1744(2006). Gianakopoulos, P.J., et al. J. Biol. Chem. 280(22):21022-21028(2005). Petropoulos, H., et al. J. Biol. Chem. 279(23):23874-23881(2004). Stamataki, D., et al. FEBS Lett. 499(3):274-278(2001).
Other Notes	Small volumes of anti-MEOX1 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 MEOX1 purchase	MBS6320221 is an antibody targeting MEOX1. Also known as MEOX1, ID (MEOX1, MOX1, Homeobox protein MOX-1, Mesenchyme homeobox 1) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MEOX1 antibody
MEOX1 Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the MEOX1 antibody detected the MEOX1 protein (arrow).



Western Blot (WB) of anti-MEOX1 antibody
Western blot analysis of MEOX1 (arrow) using rabbit polyclonal MEOX1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the MEOX1 gene.



Immunohistochemistry (IHC) of anti-MEOX1 antibody
MEOX1 Antibody (Center) (AP14566c)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MEOX1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEOX1. It may not necessarily be applicable to this product.

NCBI GI #	4758710
NCBI GeneID	4222
NCBI Accession #	NP_004518.1
NCBI Related Accession #	NP_001035091.1
UniProt Primary Accession #	P50221
UniProt Related Accession #	P50221
GenBank Nucleotide #	NP_004518.1
NCBI Official Full Name	homeobox protein MOX-1 isoform 1
NCBI Official Synonym Full Names	mesenchyme homeobox 1
NCBI Official Symbol	MEOX1
NCBI Official Synonym Symbols	KFS2; MOX1
UniProt Protein Name	Homeobox protein MOX-1
UniProt Synonym Protein Names	Mesenchyme homeobox 1

Protein Family	Homeobox protein
UniProt Gene Name	MEOX1
UniProt Synonym Gene Names	MOX1
UniProt Entry Name	MEOX1_HUMAN
NCBI Protein Information	homeobox protein MOX-1
UniProt Comments for MEOX1	MEOX1: Role in mesoderm induction and its earliest regional specification, somitogenesis, and myogenic and sclerotomal differentiation. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 17q21 Cellular Component: cytoplasm; nucleus Molecular Function: sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: somite specification; transcription, DNA-dependent; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter Disease: Klippel-feil Syndrome 2, Autosomal Recessive
Research Articles on MEOX1	**1.** MEOX1 was silenced to detect the relationship between silenced MEOX1 and cell proliferation, migration, apoptosis, and invasion. Cell proliferation, colony formation rate, cell migration, invasion, cell cycle, and apoptosis were detected respectively.
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