

Rabbit anti-Human MEOX1 Polyclonal Antibody | anti-MEOX1 antibody

MEOX1 Antibody (Center)

CATALOG # AAA284837	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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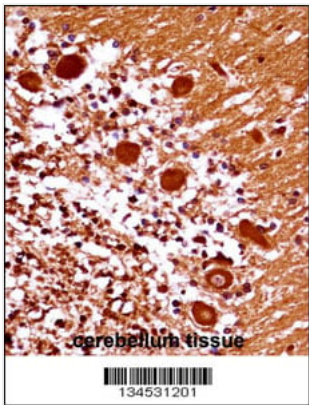
PRODUCT SYNONYMS

MEOX1; Polyclonal Antibody; MEOX1 Antibody (Center); Homeobox protein MOX-1; Mesenchyme homeobox 1; MOX1; anti-MEOX1 antibody

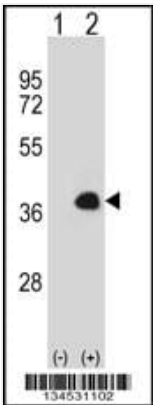
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MEOX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-165 amino acids from the Central region of human MEOX1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	136-165
Sequence Length	139
Applicable Applications for anti-MEOX1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints (PubMed: , PubMed:24073994). Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome. Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner. Required for hematopoietic stem cell (HSCs) induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial precursor population, which arises within a sub-compartment of the somite named endotome.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:P32442}. Cytoplasm {ECO:0000250 UniProtKB:P32442}. Note=Localizes predominantly in the nucleus. {ECO:0000250 UniProtKB:P32442}
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

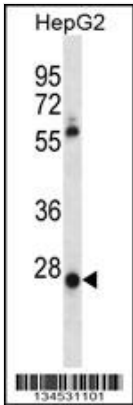
IMAGES



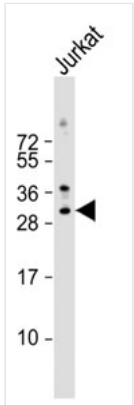
IHC (Immunohistochemistry)
MEOX1 Antibody (Center) (AAA284837)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MEOX1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
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.



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



WB (Western Blot)
Anti-MEOX1 Antibody (Center) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 28 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

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 Categories/Family for anti-MEOX1 antibody	Cell Biology; Developmental Biology; Signal Transduction
References	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) Petrooulos, H., et al. J. Biol. Chem. 279(23):23874-23881(2004) Stamataki, D., et al. FEBS Lett. 499(3):274-278(2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	91208415
NCBI GeneID	4222

NCBI Accession #	NP_001035091.1; NP_004518.1; NP_054705.1
NCBI GenBank Nucleotide #	NM_001040002.1
UniProt Accession #	P50221; Q15069; A8K524; A8MWF9
Molecular Weight	27997
NCBI Official Full Name	homeobox protein MOX-1 isoform 3
NCBI Official Synonym Full Names	mesenchyme homeobox 1
NCBI Official Symbol	MEOX1
NCBI Official Synonym Symbols	KFS2; MOX1
NCBI Protein Information	homeobox protein MOX-1
UniProt Protein Name	Homeobox protein MOX-1
UniProt Gene Name	MEOX1
UniProt Synonym Gene Names	MOX1
UniProt Entry Name	MEOX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/meox1-antibody-immunohistochemistry-western-blot-elisa/284837>