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MOX1 (Meox1) Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7267b

Product Information

Application	WB, E
Primary Accession	P50221
Other Accession	NP_004518
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27997
Antigen Region	223-254

Additional Information

Gene ID	4222
Other Names	Homeobox protein MOX-1, Mesenchyme homeobox 1, MEOX1, MOX1
Target/Specificity	This MOX1 (Meox1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 223-254 amino acids from the C-terminal region of human MOX1 (Meox1).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MOX1 (Meox1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MEOX1
Synonyms	MOX1
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:23290072, 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}

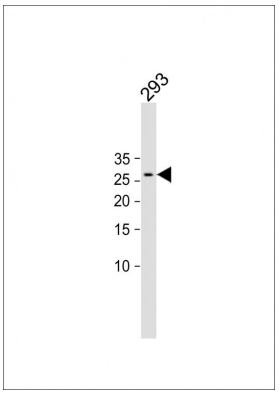
Background

Meox1 is a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. This protein may play a role in the molecular signaling network regulating somite development.

References

Vatanavicharn,N., Am. J. Med. Genet. A 143 (19), 2292-2302 (2007)
Petropoulos,H., J. Biol. Chem. 279 (23), 23874-23881 (2004)
Stelnicki,E.J., Differentiation 62 (1), 33-41 (1997)
Futreal,P.A., Hum. Mol. Genet. 3 (8), 1359-1364 (1994)

Images



All lanes: Anti-MOX1 (Meox1) Antibody (C-term) at 1:250 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 28 KDa Blocking/Dilution buffer: 5% NFDM/TBST.