

**MOX1 (Meox1) Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7267b**

**Specification**

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**MOX1 (Meox1) Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P50221</a>
Other Accession	<a href="#">NP_004518</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27997
Antigen Region	223-254

**MOX1 (Meox1) Antibody (C-term) - 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 0.09% (W/V) sodium azide. 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.

**MOX1 (Meox1) Antibody (C-term) - 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

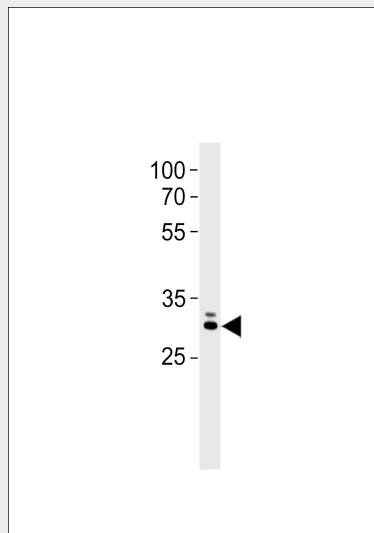
Nucleus {ECO:0000250|UniProtKB:P32442}. Cytoplasm {ECO:0000250|UniProtKB:P32442}. Note=Localizes predominantly in the nucleus. {ECO:0000250|UniProtKB:P32442}

#### MOX1 (Meox1) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MOX1 (Meox1) Antibody (C-term) - Images



Meox1 Antibody (C-term) (Cat. #AP7267b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the Meox1 antibody detected the Meox1 protein (arrow).

#### MOX1 (Meox1) Antibody (C-term) - 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.

#### **MOX1 (Meox1) Antibody (C-term) - 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)