

# MOX1 (Meox1) Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7267b

# **Specification**

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

**Application** WB,E **Primary Accession** P50221 NP 004518 Other Accession 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**

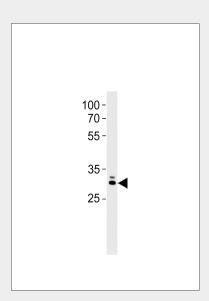
Nucleus {ECO:0000250|UniProtKB:P32442}. Cytoplasm {ECO:0000250|UniProtKB:P32442}. Note=Localizes predominantly in the nucleus. {ECO:0000250|UniProtKB:P32442}

# 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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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)