

**MEOX1 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10403**

**Specification**

**MEOX1 antibody - N-terminal region - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P50221</a>
Other Accession	<a href="#">NM_004527</a> , <a href="#">NP_004518</a>
Reactivity	Human, Mouse, Rat, Pig, Horse, Bovine, Dog
Predicted Host	Human, Pig, Bovine, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 28kDa KDa

**MEOX1 antibody - N-terminal region - Additional Information**

**Gene ID** 4222

**Alias Symbol** **MOX1**  
**Other Names**  
Homeobox protein MOX-1, Mesenchyme homeobox 1, MEOX1, MOX1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-MEOX1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

MEOX1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**MEOX1 antibody - N-terminal region - 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: <http://www.uniprot.org/citations/23290072> target="\_blank">23290072</a>, PubMed: <http://www.uniprot.org/citations/24073994> target="\_blank">24073994</a>). 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}

**MEOX1 antibody - N-terminal region - 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](#)