

MEOX1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14566c**Specification**

MEOX1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P50221](#)**MEOX1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4222**Other Names**

Homeobox protein MOX-1, Mesenchyme homeobox 1, MEOX1, MOX1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MEOX1 Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/23290072), PubMed: [24073994](http://www.uniprot.org/citations/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}

MEOX1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MEOX1 Antibody (Center) Blocking Peptide - Images

MEOX1 Antibody (Center) Blocking Peptide - Background

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.

MEOX1 Antibody (Center) Blocking Peptide - 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)Petropoulos, H., et al. J. Biol. Chem. 279(23):23874-23881(2004)Stamatakis, D., et al. FEBS Lett. 499(3):274-278(2001)