

**MEOX2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18398c****Specification**

---

**MEOX2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P50222](#)**MEOX2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4223**Other Names**

Homeobox protein MOX-2, Growth arrest-specific homeobox, Mesenchyme homeobox 2, MEOX2, GAX, MOX2

**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.

**MEOX2 Antibody (Center) Blocking Peptide - Protein Information****Name** MEOX2 {ECO:0000303|PubMed:16335786, ECO:0000312|HGNC:HGNC:7014}**Function**

Mesodermal transcription factor that plays a key role in somitogenesis and somitogenesis and limb muscle differentiation (By similarity). Required during limb development for normal appendicular muscle formation and for the normal regulation of myogenic genes (By similarity). May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle (By similarity). Also acts as a negative regulator of angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/17074759" target="\_blank">17074759</a>, PubMed:<a href="http://www.uniprot.org/citations/20516212" target="\_blank">20516212</a>, PubMed:<a href="http://www.uniprot.org/citations/22206000" target="\_blank">22206000</a>). Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/17074759" target="\_blank">17074759</a>, PubMed:<a href="http://www.uniprot.org/citations/22206000" target="\_blank">22206000</a>). While it activates CDKN1A in a DNA- dependent manner, it activates CDKN2A in a DNA-independent manner (PubMed:<a href="http://www.uniprot.org/citations/22206000" target="\_blank">22206000</a>). Together with TCF15, regulates transcription in heart endothelial cells to regulate fatty acid transport across heart endothelial cells (By similarity).

**Cellular Location**

Nucleus. Nucleus speckle

**MEOX2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MEOX2 Antibody (Center) Blocking Peptide - Images****MEOX2 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 regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities, in addition to neurovascular dysfunction observed in Alzheimer's disease.

**MEOX2 Antibody (Center) Blocking Peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press : Ohshima, J., et al. Genes Chromosomes Cancer 48(12):1037-1050(2009) Irelan, J.T., et al. PLoS ONE 4 (4), E5067 (2009) : Chen, Y., et al. Blood 111(3):1217-1226(2008) Valcourt, U., et al. Mol Oncol 1(1):55-71(2007)