

**MEOX2 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51341****Specification**

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**MEOX2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P50222</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 34 KDa                 |
| Antigen Region    | 161 - 220              |

**MEOX2 Antibody - Additional Information****Gene ID** 4223**Other Names**

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

**Target/Specificity**

KLH conjugated synthetic peptide derived from human MEOX2

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**MEOX2 Antibody - 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

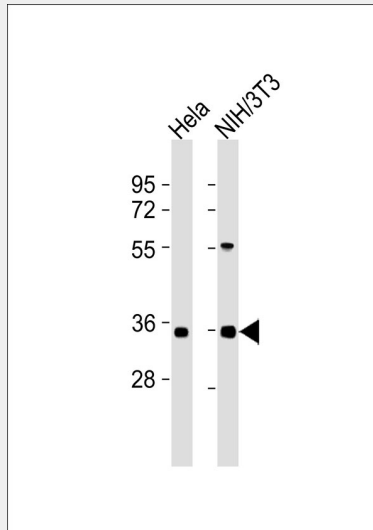
Nucleus. Nucleus speckle

### MEOX2 Antibody - 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](#)

### MEOX2 Antibody - Images



All lanes : Anti-MEOX2 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### MEOX2 Antibody - Background

Role in mesoderm induction and its earliest regional specification, somitogenesis, and myogenic and sclerotomal differentiation. May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle (By similarity).

## **MEOX2 Antibody - References**

Grigoriou M.,et al.Genomics 26:550-555(1995).  
Lepage D.F.,et al.Genomics 24:535-540(1994).  
Hillier L.W.,et al.Nature 424:157-164(2003).  
Lin J.,et al.Mol. Cell. Biochem. 275:75-84(2005).  
Salichs E.,et al.PLoS Genet. 5:E1000397-E1000397(2009).