

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

Specification

MEOX2 Antibody - Product Information

Application	WB
Primary Accession	P50222
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:17074759, PubMed:20516212, PubMed:22206000). Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell

proliferation (PubMed:17074759, PubMed:22206000). While it activates CDKN1A in a DNA- dependent manner, it activates CDKN2A in a DNA-independent manner (PubMed:22206000). Together with TCF15, regulates transcription in heart endothelial cells to regulate fatty acid transport across heart endothelial cells (By similarity).

Cellular Location

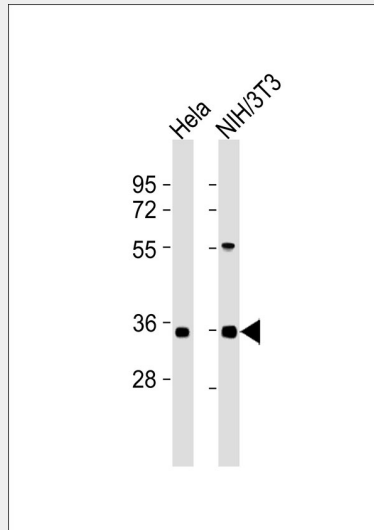
Nucleus. Nucleus speckle

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% NFDN/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).