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Anti-MEOX2 Antibody

Catalog # AP51341

Product Information

Application	WB, IHC
Primary Accession	P50222
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33594

Additional Information

Gene ID	4223
Other Names	GAX; MOX2; Homeobox protein MOX-2; Growth arrest-specific homeobox; Mesenchyme homeobox 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MEOX2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

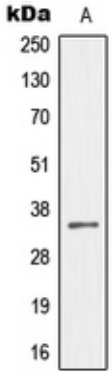
Protein Information

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

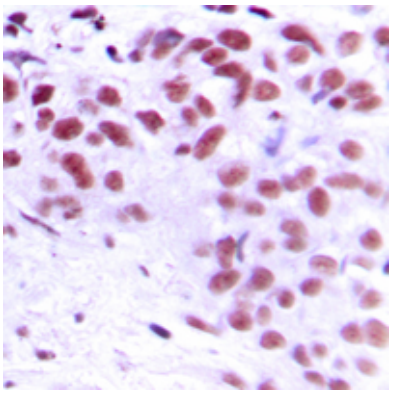
References

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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).

Images



Western blot analysis of MEOX2 expression in HeLa (A) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 34 kD)



Immunohistochemical analysis of MEOX2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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