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MEOX2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant MEOX2.
Catalog # AT2845a

Product Information

Application	WB, IF, E
Primary Accession	P50222
Other Accession	BC017021
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5A6
Calculated MW	33594

Additional Information

Gene ID	4223
Other Names	Homeobox protein MOX-2, Growth arrest-specific homeobox, Mesenchyme homeobox 2, MEOX2, GAX, MOX2
Target/Specificity	MEOX2 (AAH17021, 1 a.a. ~ 303 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MEOX2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

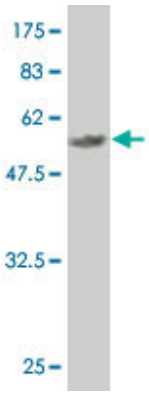
This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities, in addition to neurovascular dysfunction observed in Alzheimer's disease.

References

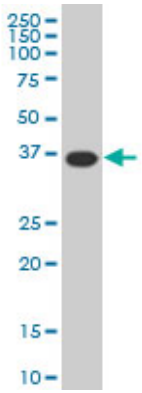
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Two candidate tumor suppressor genes, MEOX2

and SOSTDC1, identified in a 7p21 homozygous deletion region in a Wilms tumor. Ohshima J, et al. Genes Chromosomes Cancer, 2009 Dec. PMID 19760604.Functional role of Meox2 during the epithelial cytostatic response to TGF-beta. Valcourt U, et al. Mol Oncol, 2007 Jun. PMID 19383287.A functional screen for regulators of CKDN2A reveals MEOX2 as a transcriptional activator of INK4a. Irelan JT, et al. PLoS One, 2009. PMID 19340300.Regulation of angiogenesis through a microRNA (miR-130a) that down-regulates antiangiogenic homeobox genes GAX and HOXA5. Chen Y, et al. Blood, 2008 Feb 1. PMID 17957028.

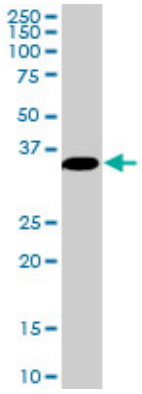
Images



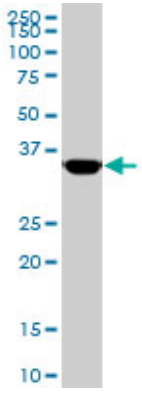
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (59.07 KDa) .



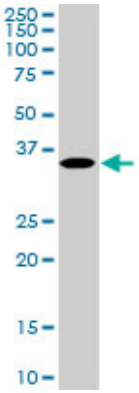
MEOX2 monoclonal antibody (M02), clone 5A6 Western Blot analysis of MEOX2 expression in HeLa ((Cat # AT2845a)



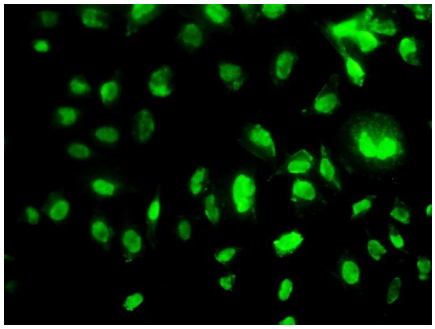
MEOX2 monoclonal antibody (M02), clone 5A6. Western Blot analysis of MEOX2 expression in PC-12 ((Cat # AT2845a)



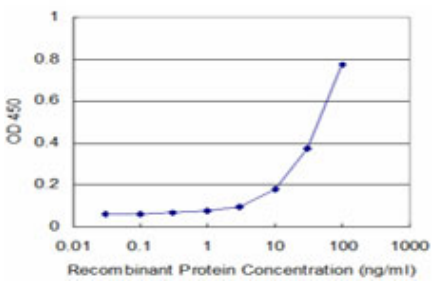
MEOX2 monoclonal antibody (M02), clone 5A6. Western Blot analysis of MEOX2 expression in Raw 264.7 ((Cat # AT2845a)



MEOX2 monoclonal antibody (M02), clone 5A6. Western Blot analysis of MEOX2 expression in NIH/3T3 ((Cat # AT2845a)



Immunofluorescence of monoclonal antibody to MEOX2 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged MEOX2 is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.