

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

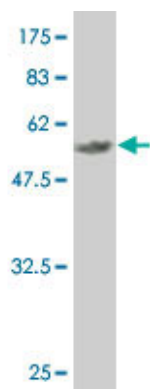
This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities,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

References

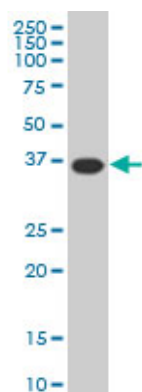
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Two candidate tumor suppressor genes, MEOX2

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.

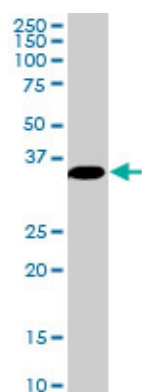
Images



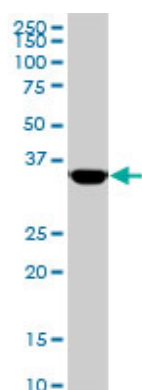
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (59.07 KDa) .



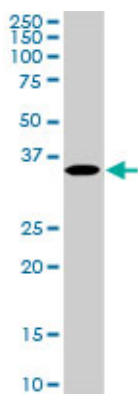
MEOX2 monoclonal antibody (M02), clone 5A6 Western Blot analysis of MEOX2 expression in HeLa ((Cat # AT2845a)



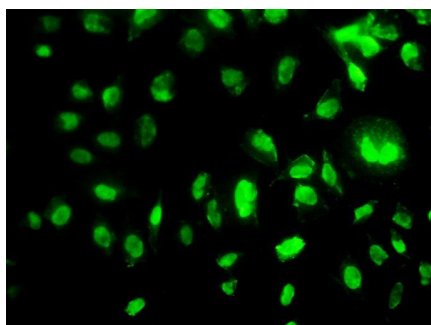
MEOX2 monoclonal antibody (M02), clone 5A6. Western Blot analysis of MEOX2 expression in PC-12 ((Cat # AT2845a)



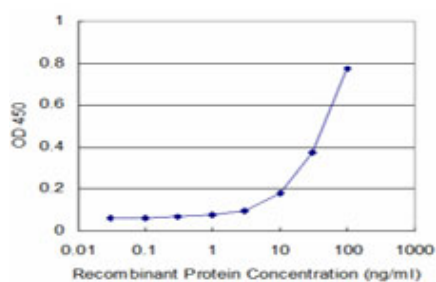
MEOX2 monoclonal antibody (M02), clone 5A6. Western Blot analysis of MEOX2 expression in Raw 264.7 ((Cat # AT2845a)



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'.