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MEOX1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10403

Product Information

Application	WB, IHC
Primary Accession	P50221
Other Accession	NM_004527, NP_004518
Reactivity	Human, Mouse, Rat, Pig, Dog, Bovine
Predicted	Human, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27997

Additional Information

Gene ID	4222
Alias Symbol	MOX1
Other Names	Homeobox protein MOX-1, Mesenchyme homeobox 1, MEOX1, MOX1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-MEOX1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	MEOX1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MEOX1
Synonyms	MOX1
Function	Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints (PubMed:23290072, PubMed:24073994). Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome. Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner. Required for hematopoietic stem cell (HSCs)

induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial precursor population, which arises within a sub-compartment of the somite named endotome.

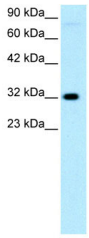
Cellular Location

Nucleus {ECO:0000250|UniProtKB:P32442}. Cytoplasm {ECO:0000250|UniProtKB:P32442}. Note=Localizes predominantly in the nucleus. {ECO:0000250|UniProtKB:P32442}

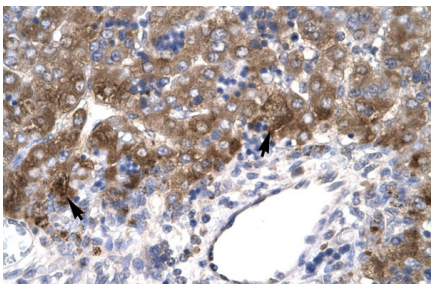
References

Jones,K.A., et al., (1994) Hum.Mol.Genet.3(11),1927-1934Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

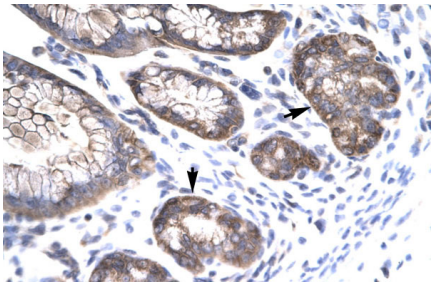
Images



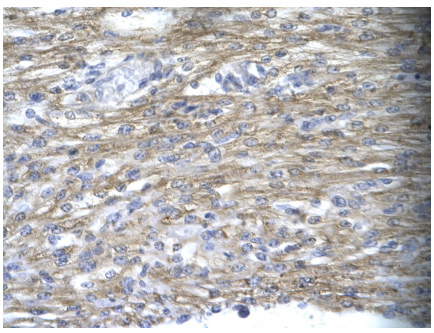
WB Suggested Anti-MEOX1 Antibody Titration: .2-1 ug/ml
Positive Control: Jurkat cell lysate



Human Liver



Human Stomach



Rabbit Anti-MEOX1 Antibody
Catalog Number:AI10403
Paraffin Embedded Tissue: Human cardiac cell
Cellular Data: Epithelial cells of renal tubule
Antibody Concentration: 4.-8. ug/ml
Magnification:4X

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