

MOX1 Rabbit pAb

Catalog # AP99099

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P50221
Other Accession	P50221
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27997
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MOX1
Epitope Specificity	101-200/254
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 homeobox DNA-binding domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 molecular signaling network regulating somite development. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	4222
Other Names	KFS2; MOX1; D330041M02Rik; Mox-1; squig; MEOX1_HUMAN; MEOX1; Mesenchyme homeobox 1; MEOX1_MOUSE; mesenchyme homeobox 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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