

ARG41159 anti-MEOX1 / MOX1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MEOX1 / MOX1
Tested Reactivity	Hu
Tested Application	ChIP, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEOX1 / MOX1
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 7-38 of Human MOX1.
Conjugation	Un-conjugated
Alternate Names	Homeobox protein MOX-1; Mesenchyme homeobox 1; KFS2; MOX1

Application Instructions

Application table	Application	Dilution
	ChIP	Assay-dependent
	ICC/IF	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	
Observed Size	28 kDa	

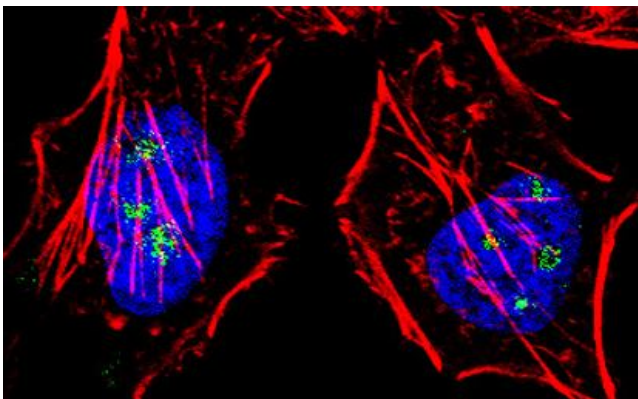
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

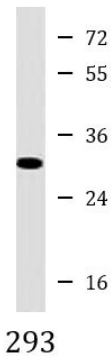
Gene Symbol	MEOX1
Gene Full Name	mesenchyme homeobox 1
Background	This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the molecular signaling network regulating somite development. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]
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. 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. [UniProt]
Calculated Mw	28 kDa
Cellular Localization	Nucleus. Cytoplasm. Note=Localizes predominantly in the nucleus. [UniProt]

Images



ARG41159 anti-MEOX1 / MOX1 antibody ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG41159 anti-MEOX1 / MOX1 antibody (green) at 1:25 dilution, 1 hour at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 hour at 37°C). DAPI (blue) for nuclear staining.



ARG41159 anti-MEOX1 / MOX1 antibody WB image

Western blot: 35 µg of 293 cell lysate stained with ARG41159 anti-MEOX1 / MOX1 antibody.