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MOX1 (Meox1) Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7267a

Specification

MOX1 (Meox1) Antibody (N-term) - Product Information

Application	**IF, WB,E**
Primary Accession	P50221
Other Accession	NP_004518
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27997**
Antigen Region	**7-38**

MOX1 (Meox1) Antibody (N-term) - Additional Information

Gene ID 4222

Other Names
Homeobox protein MOX-1, Mesenchyme homeobox 1, MEOX1, MOX1

Target/Specificity
This MOX1 (Meox1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-38 amino acids from the N-terminal region of human MOX1 (Meox1).

Dilution
IF~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MOX1 (Meox1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MOX1 (Meox1) Antibody (N-term) - 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.

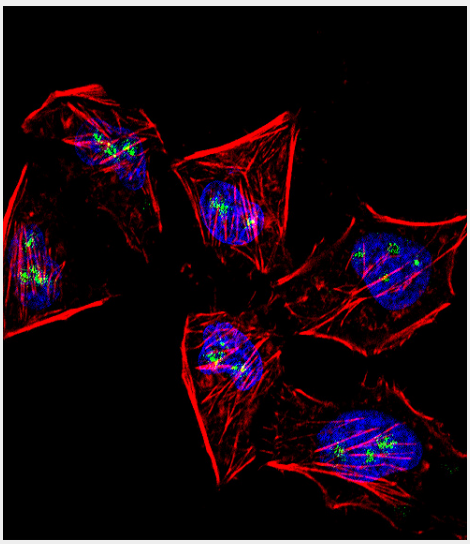
Cellular Location
Nucleus {ECO:0000250|UniProtKB:P32442}. Cytoplasm {ECO:0000250|UniProtKB:P32442}. Note=Localizes predominantly in the nucleus. {ECO:0000250|UniProtKB:P32442}

MOX1 (Meox1) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MOX1 (Meox1) Antibody (N-term) - Images



Fluorescent confocal image of Hela cell stained with Meox1 (Human N-term)(Cat#AP7267a).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with Meox1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin

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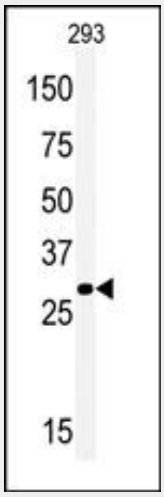
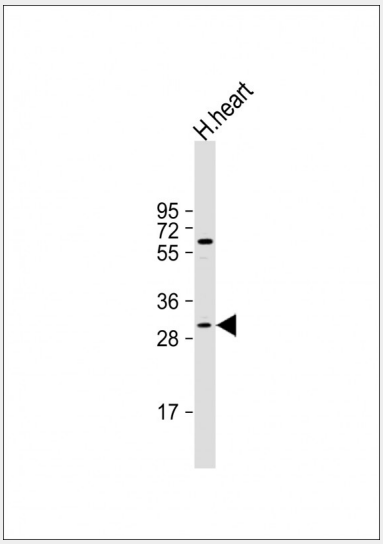
(7units/ml, 1 h at 37℃). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). Meox1 immunoreactivity is localized to Nucleolus significantly.



Western blot analysis of anti-Meox1 Antibody (N-term) (Cat. #AP7267a) in 293 cell line lysates (35ug/lane). Meox1(arrow) was detected using the purified Pab.



Anti-Meox1 (Human N-term) at 1:1000 dilution + human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MOX1 (Meox1) Antibody (N-term) - Background

Meox1 is a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. This protein may play a role in the molecular signaling network regulating somite development.

MOX1 (Meox1) Antibody (N-term) - References

Vatanavicharn,N., Am. J. Med. Genet. A 143 (19), 2292-2302 (2007)
Petropoulos,H., J. Biol. Chem. 279 (23), 23874-23881 (2004)
Stelnicki,E.J., Differentiation 62 (1), 33-41 (1997)
Futreal,P.A., Hum. Mol. Genet. 3 (8), 1359-1364 (1994)