

MOX-2 Polyclonal Antibody
Catalog # AP71004**Specification****MOX-2 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P50222
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

MOX-2 Polyclonal Antibody - Additional Information**Gene ID** 4223**Other Names**

MEOX2; GAX; MOX2; Homeobox protein MOX-2; Growth arrest-specific homeobox; Mesenchyme homeobox 2

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

MOX-2 Polyclonal Antibody - Protein Information**Name** MEOX2 {ECO:0000303|PubMed:16335786, ECO:0000312|HGNC:HGNC:7014}**Function**

Mesodermal transcription factor that plays a key role in somitogenesis and somitogenesis and limb muscle differentiation (By similarity). Required during limb development for normal appendicular muscle formation and for the normal regulation of myogenic genes (By similarity). May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle (By similarity). Also acts as a negative regulator of angiogenesis (PubMed:17074759, PubMed:20516212, PubMed:22206000). Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation (PubMed:17074759, PubMed:22206000). While it activates CDKN1A in a DNA- dependent manner, it activates CDKN2A in a DNA-independent manner (PubMed:22206000). Together

with TCF15, regulates transcription in heart endothelial cells to regulate fatty acid transport across heart endothelial cells (By similarity).

Cellular Location

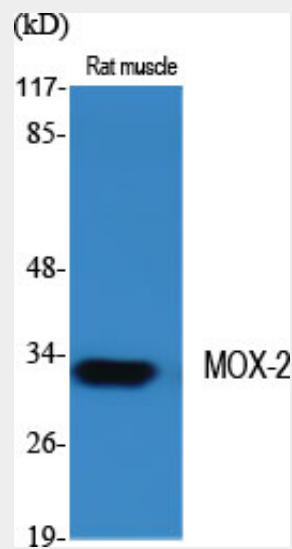
Nucleus. Nucleus speckle

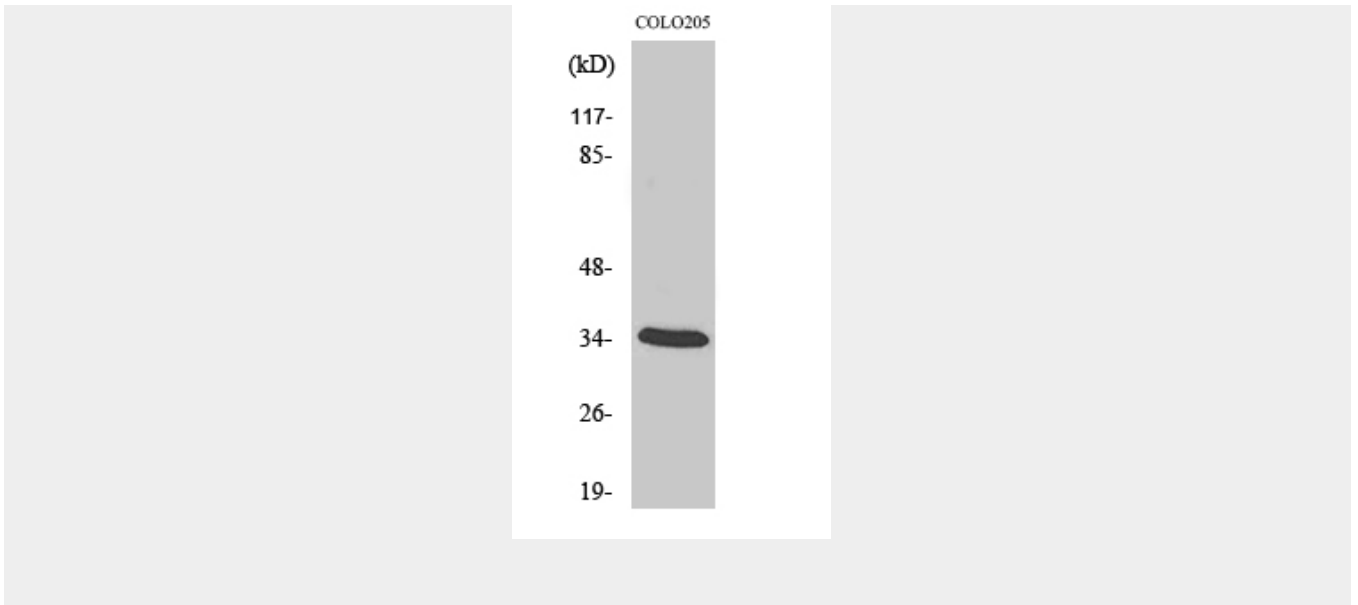
MOX-2 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MOX-2 Polyclonal Antibody - Images





MOX-2 Polyclonal Antibody - Background

Mesodermal transcription factor that plays a key role in somitogenesis and is required for sclerotome development (By similarity). 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 (PubMed:22206000). May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle.