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MOX-2 Polyclonal Antibody

Catalog # AP71004

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P50222
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33594

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. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

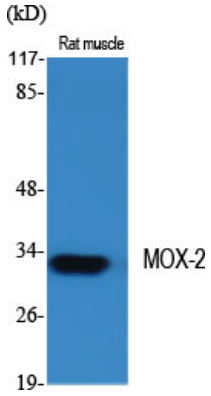
Protein Information

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

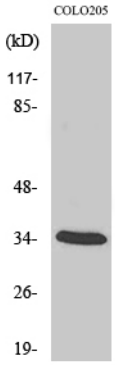
Background

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.

Images



Western Blot analysis of various cells using MOX-2 Polyclonal Antibody diluted at 1：2000



Western Blot analysis of COLO205 cells using MOX-2 Polyclonal Antibody diluted at 1：2000