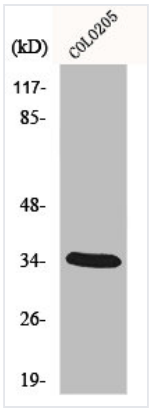
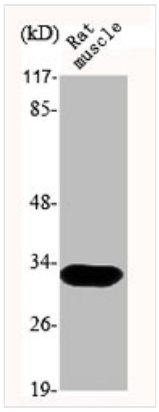
MEOX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEOX2, Polyclonal Antibody
Full Product Name	MEOX2 Antibody
Product Gene Name	anti-MEOX2 antibody
Product Synonym Names	MEOX2; GAX; MOX2; Homeobox protein MOX-2; Growth arrest-specific homeobox; Mesenchyme homeobox 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	33,594 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (15650837..15726308, complement). Location: 7p22.1-p21.3
OMIM	600535
3D Structure	ModBase 3D Structure for P50222
Immunogen	Synthesized peptide derived from the Internal region of human MOX-2.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-MEOX2 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MEOX2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MEOX2 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:10000
Related Product Information for anti-MEOX2 antibody	MBS7122178 is an antibody targeting MEOX2. Also known as MEOX2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-MEOX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MEOX2 antibody
Western Blot analysis of COLO205 cells using MOX-2 Polyclonal Antibody



Western Blot (WB) of anti-MEOX2 antibody
Western Blot analysis of RAT-MUSCLE cells using MOX-2 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEOX2. It may not necessarily be applicable to this product.

NCBI GI #	84105335
NCBI GeneID	4223
NCBI Accession #	NP_005915.2
UniProt Primary Accession #	P50222
UniProt Secondary Accession #	O75263; Q9UPL6
UniProt Related Accession #	P50222
GenBank Nucleotide #	NM_005924.4
NCBI Official Full Name	homeobox protein MOX-2
NCBI Official Synonym Full Names	mesenchyme homeobox 2
NCBI Official Symbol	MEOX2
NCBI Official Synonym Symbols	GAX; MOX2
UniProt Protein Name	Homeobox protein MOX-2
UniProt Synonym Protein Names	Growth arrest-specific homeobox; Mesenchyme homeobox 2
Protein Family	Homeobox protein
UniProt Gene Name	MEOX2
UniProt Synonym Gene Names	GAX; MOX2
UniProt Entry Name	MEOX2_HUMAN
NCBI Protein Information	homeobox protein MOX-2; growth arrest-specific homeobox
NCBI Summary for MEOX2	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 regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities, in addition to neurovascular dysfunction observed in Alzheimer's disease. [provided by RefSeq, Jul 2008]

UniProt Comments for MEOX2	MEOX2: Role in mesoderm induction and its earliest regional specification, somitogenesis, and myogenic and sclerotomal differentiation. May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 7p22.1-p21.3 Cellular Component: cytoplasm; nuclear speck; nucleus Molecular Function: protein binding; sequence-specific DNA binding; transcription factor activity Biological Process: limb development; skeletal muscle development; somite specification; transcription, DNA-dependent; blood circulation; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter; palate development; angiogenesis
Research Articles on MEOX2	**1.** MEOX1 and MEOX2 activate p16(INK4a) in a DNA binding dependent manner, whereas they induce p21(CIP1/WAF1) in a DNA binding independent manner.
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