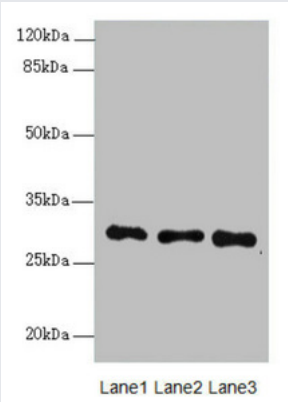
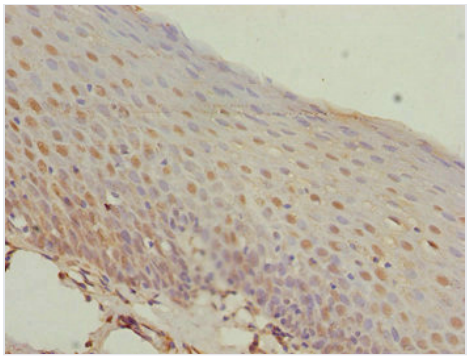
MEOX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

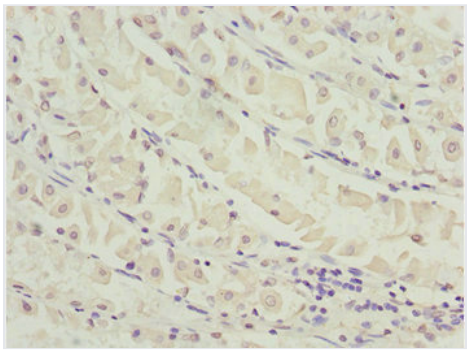
Product Name	MEOX1, Polyclonal Antibody
Full Product Name	MEOX1 Antibody
Product Gene Name	anti-MEOX1 antibody
Product Synonym Names	Homeobox protein MOX-1 antibody; MEOX1 antibody; MEOX1_HUMAN antibody; Mesenchyme homeo box 1 antibody; Mesenchyme homeobox 1 antibody; MOX 1 antibody; MOX1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze
OMIM	214300
3D Structure	ModBase 3D Structure for P50221
Immunogen	Recombinant Human Homeobox protein MOX-1 protein (1-254AA)
Conjugate	Non-conjugated
Species	Homo sapiens (Human)
Research Area	Cell Biology
Target Names	MEOX1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MEOX1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-MEOX1 antibody	IHC:1:20-1:200
Related Product Information for anti-MEOX1 antibody	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 DNAindependent 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 subcompartment of the somite named endotome.
Other Notes	Small volumes of anti-MEOX1 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.
Searchable Terms for MEOX1 purchase	MBS7045298 is an antibody targeting MEOX1. Also known as MEOX1 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MEOX1 antibody
Western blotAll lanes: MEOX1 antibody at 3.43ug/mlLane 1 : Mouse liver tissueLane 2 : Mouse lung tissueLane 3 : Mouse kidney tissueSecondaryGoat polyclonal to Rabbit IgG at 1/10000 dilutionPredicted band size: 28,20,16 kDaObserved band size: 28,90 kDa



Immunohistochemistry (IHC) of anti-MEOX1 antibody
Immunohistochemistry of paraffin-embedded human tonsil tissue using MBS7045298 at dilution 1:100



Immunohistochemistry (IHC) of anti-MEOX1 antibody
Immunohistochemistry of paraffin-embedded human gastric cancer using MBS7045298 at dilution 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEOX1. It may not necessarily be applicable to this product.

NCBI GI #	91208415
NCBI GeneID	4222
NCBI Accession #	NP_001035091.1
UniProt Primary Accession #	P50221
UniProt Secondary Accession #	Q15069; A8K524; A8MWF9
UniProt Related Accession #	P50221
GenBank Nucleotide #	NM_001040002.1
NCBI Official Full Name	homeobox protein MOX-1 isoform 3
NCBI Official Synonym Full Names	mesenchyme homeobox 1
NCBI Official Symbol	MEOX1
NCBI Official Synonym Symbols	KFS2; MOX1
UniProt Protein Name	Homeobox protein MOX-1
UniProt Synonym Protein Names	Mesenchyme homeobox 1
Protein Family	Homeobox protein
UniProt Gene Name	MEOX1

UniProt Synonym Gene Names	MOX1
UniProt Entry Name	MEOX1_HUMAN
NCBI Protein Information	homeobox protein MOX-1
NCBI Summary for MEOX1	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]
UniProt Comments for MEOX1	MEOX1: Role in mesoderm induction and its earliest regional specification, somitogenesis, and myogenic and sclerotomal differentiation. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 17q21 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; sequence-specific DNA binding; transcription factor activity Biological Process: multicellular organismal development Disease: Klippel-feil Syndrome 2, Autosomal Recessive
Research Articles on MEOX1	**1.** The G > A p.Q84X mutation in the MEOX1 is identified in Klippel-Feil syndrome.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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