MOX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MOX1, Polyclonal Antibody
Full Product Name	MOX1, NT (Homeobox Protein MOX-1, Mesenchyme Homeobox 1, MEOX1) (MaxLight 550)
Product Gene Name	anti-MOX1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human MEOX1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15,628 Da
OMIM	phenotype 600147
3D Structure	ModBase 3D Structure for P50221
Immunogen	Synthetic peptide selected from the N-terminal region of human MEOX1 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MOX1 antibody	Antibodies; Homeobox (HOX)
Applications Tested/Suitable for anti-MOX1 antibody	Western Blot (WB), FLISA
Application Notes for anti-MOX1 antibody	WB: 1:100-1:250 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MOX1 antibody	MBS6488551 is an antibody targeting MOX1. Also known as MOX1, NT (Homeobox Protein MOX-1, Mesenchyme Homeobox 1, MEOX1) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MOX1 antibody	1. Vatanavicharn, N., Am. J. Med. Genet. A 143(19), 2292-2302 (2007). 2. Petropoulos, H., J. Biol. Chem. 279(23), 23874-23881 (2004). 3. Stelnicki, E.J., Differentiation 62(1), 33-41 (1997). 4. Futreal, P.A., Hum. Mol. Genet. 3(8), 1359-1364 (1994).
Other Notes	Small volumes of anti-MOX1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MOX1. It may not necessarily be applicable to this product.

NCBI GI #	4758710
NCBI GeneID	4222
NCBI Accession #	NP_004518
UniProt Primary Accession #	P50221
UniProt Secondary Accession #	Q15069; A8K524; A8MWF9
UniProt Related Accession #	P50221
GenBank Nucleotide #	NM_004527.3
NCBI Official Full Name	homeobox protein MOX-1 isoform 1
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
UniProt Gene Name	MEOX1
UniProt Synonym Gene Names	MOX1
UniProt Entry Name	MEOX1_HUMAN
NCBI Protein Information	homeobox protein MOX-1
NCBI Summary for MOX1	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 MOX1	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: sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: somite specification; transcription, DNA-dependent; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter Disease: Klippel-feil Syndrome 2, Autosomal Recessive
Research Articles on MOX1	**1.** The G > A p.Q84X mutation in the MEOX1 is identified in Klippel-Feil syndrome.
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