# MEOX1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MEOX1, Polyclonal Antibody |
| **Full Product Name** | MEOX1, ID (MEOX1, MOX1, Homeobox protein MOX-1, Mesenchyme homeobox 1) (MaxLight 405) |
| **Product Gene Name** | anti-MEOX1 antibody |
| **Product Synonym Names** | MEOX1; MOX1; Homeobox protein MOX-1; Mesenchyme homeobox 1 |
| **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 MaxLight405. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **OMIM** | phenotype 600147 |
| **3D Structure** | ModBase 3D Structure for P50221 |
| **Immunogen** | MEOX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-165 amino acids from the Central region of human MEOX1. |
| **Conjugate** | MaxLight405 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-MEOX1 antibody** | Antibodies; Transcription Factors; Zinc; Ring; Homeobox |
| **Applications Tested/Suitable for anti-MEOX1 antibody** | Immunohistochemistry (IHC), FLISA, Western Blot (WB) |
| **Application Notes for anti-MEOX1 antibody** | IHC: 1:10-50<br>FLISA: 1:1,000<br>WB: 1:100-500<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MEOX1 antibody** | 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. |
| **Product References and Citations for anti-MEOX1 antibody** | Vatanavicharn, N., et al. Am. J. Med. Genet. A 143A (19), 2292-2302 (2007): Wissmuller, S., et al. Nucleic Acids Res. 34(6):1735-1744(2006). Gianakopoulos, P.J., et al. J. Biol. Chem. 280(22):21022-21028(2005). Petropoulos, H., et al. J. Biol. Chem. 279(23):23874-23881(2004). Stamataki, D., et al. FEBS Lett. 499(3):274-278(2001). |
| **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. |

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| **Searchable Terms for MEOX1 purchase** | MBS6320226 is an antibody targeting MEOX1. Also known as MEOX1, ID (MEOX1, MOX1, Homeobox protein MOX-1, Mesenchyme homeobox 1) (MaxLight 405). Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 4758710 |
| **NCBI GeneID** | 4222 |
| **NCBI Accession #** | NP_004518.1 |
| **NCBI Related Accession #** | NP_001035091.1 |
| **UniProt Primary Accession #** | P50221 |
| **UniProt Related Accession #** | P50221 |
| **GenBank Nucleotide #** | NP_004518.1 |
| **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 |
| **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 |
| **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.<br><br>Protein type: Transcription factor<br><br>Chromosomal Location of Human Ortholog: 17q21<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: sequence-specific DNA binding; chromatin binding; transcription factor activity<br><br>Biological Process: somite specification; transcription, DNA-dependent; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter<br><br>Disease: Klippel-feil Syndrome 2, Autosomal Recessive |
| **Research Articles on MEOX1** | **1.** MEOX1 was silenced to detect the relationship between silenced MEOX1 and cell proliferation, migration, apoptosis, and invasion. Cell proliferation, colony formation rate, cell migration, invasion, cell cycle, and apoptosis were detected respectively. |
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