# MEOX2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MEOX2, Polyclonal Antibody |
| **Full Product Name** | MEOX2, ID (MEOX2, GAX, MOX2, Homeobox protein MOX-2, Growth arrest-specific homeobox, Mesenchyme homeobox 2) (MaxLight 550) |
| **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 |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550. |
| **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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **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** | MEOX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-192 amino acids from the Central region of human MEOX2. |
| **Conjugate** | MaxLight550 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-MEOX2 antibody** | Antibodies; Transcription Factors; Zinc; Ring; Homeobox |
| **Applications Tested/Suitable for anti-MEOX2 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-MEOX2 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MEOX2 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 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. |
| **Product References and Citations for anti-MEOX2 antibody** | Rose, J. Phd, et al. Mol. Med. (2010). In press: Ohshima, J., et al. Genes Chromosomes Cancer 48(12):1037-1050(2009). Irelan, J.T., et al. PLoS ONE 4 (4), E5067 (2009): Chen, Y., et al. Blood 111(3):1217-1226(2008). Valcourt, U., et al. Mol Oncol 1(1):55-71(2007). |

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| **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. |
| **Searchable Terms for MEOX2 purchase** | MBS6320239 is an antibody targeting MEOX2. Also known as MEOX2, ID (MEOX2, GAX, MOX2, Homeobox protein MOX-2, Growth arrest-specific homeobox, Mesenchyme homeobox 2) (MaxLight 550). Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

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

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| **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 |
| **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.<br><br>Protein type: DNA-binding<br><br>Chromosomal Location of Human Ortholog: 7p22.1-p21.3<br><br>Cellular Component: cytoplasm; nuclear speck; nucleus<br><br>Molecular Function: protein binding; sequence-specific DNA binding; transcription factor activity<br><br>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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