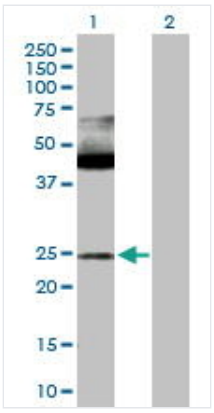
# MAX Antibody – Rabbit Polyclonal

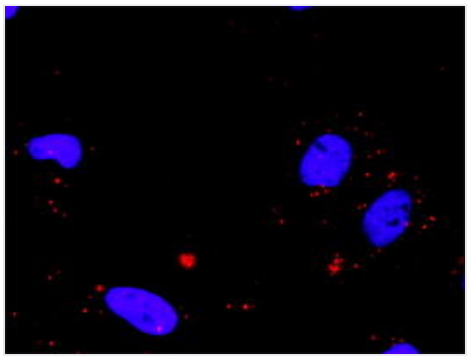
## PRODUCT OVERVIEW

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| **Product Name** | MAX, Polyclonal Antibody |
| **Full Product Name** | MAX (Protein Max, Class D Basic Helix-loop-helix Protein 4, bHLHd4, Myc-associated Factor X, BHLHD4) (AP) |
| **Product Gene Name** | anti-MAX 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 Alkaline Phosphatase (AP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human MAX. |
| **Preparation and Storage** | Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **OMIM** | 154950 |
| **3D Structure** | ModBase 3D Structure for P61244 |
| **Immunogen** | Full length human MAX, aa1-151 (NP_660087.1). |
| **Immunogen Sequence** | MSDNDDIEVESDADKRAHHNALERKRRDHIKDSFHSLRDSVPSLQGEKASRAQILDKATEYIQYMRRKNHTHQQDIDDLKRQNALLEQQVRALEKARSSA |
| **Conjugate** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-MAX antibody** | Antibodies; Transcription Factors |
| **Applications Tested/Suitable for anti-MAX antibody** | Western Blot (WB) |
| **Application Notes for anti-MAX antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MAX antibody** | MAX is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers wi oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (th system of transcriptional regulation. |
| **Other Notes** | Small volumes of anti-MAX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 MAX purchase** | MBS6385016 is an antibody targeting MAX. Also known as MAX (Protein Max, Class D Basic Helix-loop-helix Protein 4, bHLHd4, Myc-associated Fact |




**Western Blot (WB) of anti-MAX antibody**
Western Blot analysis of MAX expression in transfected 293T cell line by polyclonal antibody. Lane 1: MAX transfected lysate (17.2kD). Lane 2: Non-transfected lysate.



**Testing Data of anti-MAX antibody**
Proximity Ligation Analysis (PLA) of protein-protein interactions between MAX and SMAD3 HeLa cells were stained with MAX rabbit purified polyclonal 1:1200 and SMAD3 mouse monoclonal antibody 1:50. Signals were detected 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 21704263 |
| **NCBI GeneID** | 4149 |
| **NCBI Accession #** | NP_660087.1 |
| **UniProt Primary Accession #** | P61244 |
| **UniProt Related Accession #** | P61244 |
| **GenBank Nucleotide #** | NM_145112 |
| **NCBI Official Full Name** | protein max isoform b |
| **NCBI Official Synonym Full Names** | MYC associated factor X |
| **NCBI Official Symbol** | MAX |
| **NCBI Official Synonym Symbols** | bHLHd4 |
| **UniProt Protein Name** | Protein max |
| **UniProt Synonym Protein Names** | Class D basic helix-loop-helix protein 4; bHLHd4; Myc-associated factor X |
| **Protein Family** | Protein max |
| **UniProt Gene Name** | MAX |
| **UniProt Synonym Gene Names** | BHLHD4; bHLHd4 |
| **UniProt Entry Name** | MAX_HUMAN |
| **NCBI Protein Information** | protein max |
| **NCBI Summary for MAX** | The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Mutations of this gene have been reported to be associated with hereditary pheochromocytoma. A pseudogene of this gene is located on the long arm of chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012] |

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| **UniProt Comments for MAX** | MAX: a transcription factor. Forms a DNA- binding protein complex with MYC or MAD. The MYC-MAX complex is a transcriptional activator, whereas the MAD-MAX complex is a repressor. CPG methylation of the recognition site greatly inhibits DNA binding, suggesting that DNA methylation may regulate the MYC/MAX complex in vivo. May repress transcription via the recruitment of a chromatin remodeling complex containing H3-K9 histone methyltransferase activity. Three alternatively spliced isoforms have been reported.<br><br>Protein type: DNA-binding; Transcription factor<br><br>Chromosomal Location of Human Ortholog: 14q23<br><br>Cellular Component: nucleoplasm; PML body; dendrite; cytoplasm; nucleus<br><br>Molecular Function: protein binding; protein homodimerization activity; sequence-specific DNA binding; protein heterodimerization activity; transcription coactivator activity; transcription cofactor activity; protein complex binding; transcription factor activity<br><br>Biological Process: transcription from RNA polymerase II promoter; neuron apoptosis; regulation of transcription, DNA-dependent; retina development in camera-type eye; protein complex assembly; response to axon injury; cellular response to starvation; response to insulin stimulus |
| **Research Articles on MAX** | **1.** lncEGFL7OS is required for MAPK and AKT pathway activation by regulating EGFL7/miR-126 expression. |
| **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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