MAX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAX, Polyclonal Antibody
Full Product Name	MAX Conjugated Antibody
Product Gene Name	anti-MAX antibody
Product Synonym Names	MGC10775; MGC11225; MGC18164; MGC34679; MGC36767; bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8; orf1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total MAX antibody.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	160
OMIM	154950
3D Structure	ModBase 3D Structure for P61244
Immunogen	Recombinant protein of human MAX.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-MAX antibody	Most Applications
Application Notes for anti-MAX antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-MAX antibody	Members of the Myc/Max/Mad network function as transcriptional regulators with roles in various aspects of cell behavior including proliferation, differentiation and apoptosis (1). These proteins share a common basic-helix-loop-helix leucine zipper (bHLH-ZIP) motif required for dimerization and DNA-binding. Max was originally discovered based on its ability to associate with c-Myc and found to be required for the ability of Myc to bind DNA and activate transcription (2). Subsequently, Max has been viewed as a central component of the transcriptional network, forming homodimers as well as heterodimers with other members of the Myc and Mad families (1). The association between Max and either Myc or Mad can have opposing effects on transcriptional regulation and cell behavior (1). The Mad family consists of four related proteins; Mad1, Mad2 (Mxi1), Mad3 and Mad4, and the more distantly related members of the bHLH-ZIP family, Mnt and Mga. Like Myc, the Mad proteins are tightly regulated with short half-lives. In general, Mad family members interfere with Myc-mediated processes such as proliferation, transformation and prevention of apoptosis by inhibiting transcription (3, 4).

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 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 MAX purchase	MBS9448609 is an antibody targeting MAX. Also known as MAX Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	47117704
NCBI GeneID	4149
NCBI Accession #	P61244.1
UniProt Primary Accession #	P61244
UniProt Secondary Accession #	P25912; P52163; Q14803; Q96CY8; A6NH73; A8K265; A8K4G4; A8K824
UniProt Related Accession #	P61244
NCBI Official Full Name	Protein max
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; class D basic helix-loop-helix protein 4
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]

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. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 14q23 Cellular Component: nucleoplasm; PML body; dendrite; cytoplasm; nucleus 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 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.** Genetic and molecular findings provide powerful evidence that MAX is a tumor-suppressor gene involved in SCLC development.
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