MAX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

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) (MaxLight 550)
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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAX.
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 amo Caution: MaxLight550 conjugates are sensitive to light. For 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	MaxLight550
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.

Searchable Terms for MAX purchase	MBS6385023 is an antibody targeting MAX. Also known as MAX (Protein Max, Class D Basic Helix-loop-helix Protein 4, bHLHd4, Myc-associated Fact

ADDITIONAL DETAILS

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

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]

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.** lncEGFL7OS is required for MAPK and AKT pathway activation by regulating EGFL7/miR-126 expression.
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