

Goat Anti-MAX Antibody
Peptide-affinity purified goat antibody
Catalog # AF1654a**Specification**

Goat Anti-MAX Antibody - Product Information

Application	IHC
Primary Accession	P61244
Other Accession	NP_660087 , 4149 , 17187 (mouse)
Reactivity	Human, Mouse, Rat
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	18275

Goat Anti-MAX Antibody - Additional Information**Gene ID** 4149**Other Names**

Protein max, Class D basic helix-loop-helix protein 4, bHLHD4, Myc-associated factor X, MAX, BHLHD4

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-MAX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MAX Antibody - Protein Information**Name** MAX ([HGNC:6913](#))**Synonyms** BHLHD4**Function**

Transcription regulator. Forms a sequence-specific DNA- binding protein complex with MYC or MAD which recognizes the core sequence 5'-CAC[GA]TG-3'. The MYC:MAX complex is a transcriptional activator, whereas the MAD:MAX complex is a repressor. May repress transcription via the

recruitment of a chromatin remodeling complex containing H3 'Lys-9' histone methyltransferase activity. Represses MYC transcriptional activity from E-box elements.

Cellular Location

Nucleus. Cell projection, dendrite.

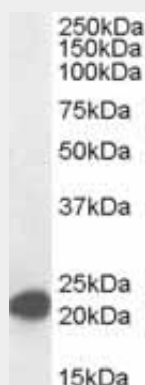
Tissue Location

High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle

Goat Anti-MAX Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-MAX Antibody - Images

AF1654a (0.01 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-MAX Antibody - Background

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. Multiple alternatively spliced transcript variants have been described for this gene but the full-length nature for some of them is unknown.

Goat Anti-MAX Antibody - References

Differentiation-associated miR-22 represses Max expression and inhibits cell cycle progression. Ting Y, et al. Biochem Biophys Res Commun, 2010 Apr 9. PMID 20214878.

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Genome-wide association study of anthropometric traits in Korcula Island, Croatia. Polasek O, et al. Croat Med J, 2009 Feb. PMID 19260139.

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Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.