

## **Goat Anti-MAX Antibody**

Peptide-affinity purified goat antibody Catalog # AF1654a

## **Specification**

## **Goat Anti-MAX Antibody - Product Information**

Application WB, E
Primary Accession P61244

Other Accession NP 660087, 4149, 17187 (mouse)

Reactivity Human, Mouse, Rat

Predicted Dog
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

#### **Dilution**

WB~~1:1000

E~~N/A

## **Format**

0.5 mg lgG/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**

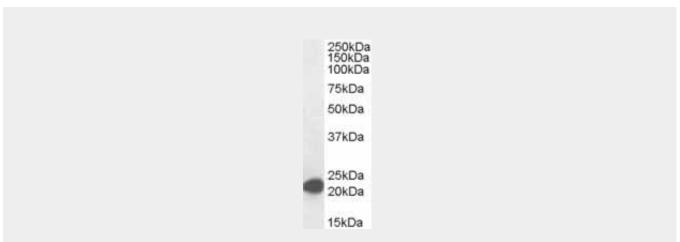
High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle

## **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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Goat Anti-MAX Antibody - Images



AF1654a (0.01  $\mu$ g/ml) staining of Jurkat lysate (35  $\mu$ g 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.





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## **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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Switch from Mnt-Max to Myc-Max induces p53 and cyclin D1 expression and apoptosis during cholestasis in mouse and human hepatocytes. Yang H, et al. Hepatology, 2009 Mar. PMID 19086036.

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