

## **Anti-MAX Picoband Antibody**

**Catalog # ABO10283** 

## **Specification**

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

Application WB, IHC-P, E
Primary Accession P61244

Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

**Description** 

Rabbit  $\log G$  polyclonal antibody for MAX detection. Tested with WB, IHC-P, Direct ELISA in

Human; Mouse; Rat.

## Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-MAX Picoband 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

# **Application Details**

Western blot, 0.1-0.5  $\mu$ g/ml<br/>br> Immunohistochemistry(Paraffin-embedded Section), 0.5-1  $\mu$ g/ml<br/>br> Direct ELISA, 0.1-0.5  $\mu$ g/ml<br/>br>

### **Subcellular Localization**

Nucleus. Cell projection, dendrite.

## **Tissue Specificity**

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

### Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<br/><sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

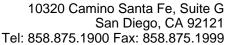
## **Immunogen**

E. coli-derived human MAX recombinant protein (Position: A30-R106).

## **Cross Reactivity**

No cross reactivity with other proteins.

Storage At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be





aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.

## **Anti-MAX Picoband 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

## **Anti-MAX Picoband 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

# **Anti-MAX Picoband Antibody - Images**

# **Anti-MAX Picoband Antibody - Background**

MAX(Max protein), also called Myc-associated factor x, is the most conserved dimerization component of the MYC-MAX-MXD1 network of basic helix-loop-helix leucine zipper (bHLHZ) transcription factors that regulate cell proliferation, differentiation, and apoptosis. The conservation of the MAX sequence is particularly high in the bHLHZ domain, which is involved in protein-protein interactions and DNA binding. The MAX gene is located on chromosome 14q23 by fluorescence in situ chromosomal hybridization. Both quasisymmetric heterodimers resemble the symmetric MAX homodimer, albeit with marked structural differences in the coiled-coil leucine zipper regions that explain preferential homo- and heteromeric dimerization of these 3 evolutionarily related DNA-binding proteins. MAX acts as a classic tumor suppressor gene. Normal lymphocytes from patients showed absence of methylation of the MAX promoter and biallelic expression of MAX, which ruled out an imprinting-mediated effect on MAX expression. The ability of these cells to divide, differentiate, and apoptose in the absence of Max demonstrated for the first time that these processes can occur via Max- and possibly Myc-independent mechanisms.