

**Goat Anti-MAD4 / MXD4 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1645a

### Specification

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#### Goat Anti-MAD4 / MXD4 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q14582</a>
Other Accession	<a href="#">NP_006445</a> , <a href="#">10608</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	23528

#### Goat Anti-MAD4 / MXD4 Antibody - Additional Information

**Gene ID** 10608

#### Other Names

Max dimerization protein 4, Max dimerizer 4, Class C basic helix-loop-helix protein 12, bHLHc12, Max-associated protein 4, Max-interacting transcriptional repressor MAD4, MXD4, BHLHC12, MAD4

#### 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-MAD4 / MXD4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat Anti-MAD4 / MXD4 Antibody - Protein Information

**Name** MXD4

**Synonyms** BHLHC12, MAD4

#### Function

Transcriptional repressor. Binds with MAX to form a sequence-specific DNA-binding protein complex which recognizes the core sequence 5'-CAC[GA]TG-3'. Antagonizes MYC transcriptional activity by competing for MAX and suppresses MYC dependent cell transformation (By similarity).

### Cellular Location

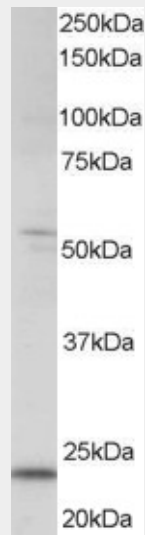
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

### Goat Anti-MAD4 / MXD4 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-MAD4 / MXD4 Antibody - Images



AF1645a staining (0.5 µg/ml) of human kidney lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

### Goat Anti-MAD4 / MXD4 Antibody - Background

This gene is a member of the MAD gene family. The MAD genes encode basic helix-loop-helix-leucine zipper proteins that heterodimerize with MAX protein, forming a transcriptional repression complex. The MAD proteins compete for MAX binding with MYC, which heterodimerizes with MAX forming a transcriptional activation complex. Studies in rodents suggest that the MAD genes are tumor suppressors and contribute to the regulation of cell growth in differentiating tissues.

### Goat Anti-MAD4 / MXD4 Antibody - References

c-Myc creates an activation loop by transcriptionally repressing its own functional inhibitor, hMad4, in young fibroblasts, a loop lost in replicatively senescent fibroblasts. Marcotte R, et al. J Cell Biochem, 2005 Dec 1. PMID 16167342.

Yeast two-hybrid identification of prostatic proteins interacting with human sex hormone-binding globulin. Pope SN, et al. J Steroid Biochem Mol Biol, 2005 Feb. PMID 15862967.

Generation and annotation of the DNA sequences of human chromosomes 2 and 4. Hillier LW, et al. Nature, 2005 Apr 7. PMID 15815621.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Human liver specific transcriptional factor TCP10L binds to MAD4. Jiang DJ, et al. J Biochem Mol Biol, 2004 Jul 31. PMID 15469726.