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Goat Anti-MAD4 / MXD4 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1645a

Specification

Goat Anti-MAD4 / MXD4 Antibody - Product Information

Application	**WB**
Primary Accession	Q14582
Other Accession	NP_006445, 10608
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 Cytomety
- 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.

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