

MXD4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6539a**Specification**

MXD4 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q14582](#)**MXD4 Antibody (N-term) Blocking Peptide - 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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6539a](/products/AP6539a) was selected from the N-term region of human MXD4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MXD4 Antibody (N-term) Blocking Peptide - 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}.

MXD4 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MXD4 Antibody (N-term) Blocking Peptide - Images

MXD4 Antibody (N-term) Blocking Peptide - Background

MXD4 is a member of the MAD gene family . The MAD, 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.

MXD4 Antibody (N-term) Blocking Peptide - References

Marcotte,R., J. Cell. Biochem. 96 (5), 1071-1085 (2005)