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MXD4 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6539a

Specification

MXD4 Antibody (N-term) Blocking Peptide - Product Information

Primary 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 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}.

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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)