10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

MLX Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8638c

Specification

MLX Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UH92

MLX Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6945

Other Names
Max-like protein X, Class D basic helix-loop-helix protein 13, bHLHd13, Max-like bHLHZip protein, Protein BigMax, Transcription factor-like protein 4, MLX, BHLHD13, TCFL4

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8638c was selected from the Center region of human MLX. 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.

MLX Antibody (Center) Blocking Peptide - Protein Information

MLX Antibody (Center) Blocking Peptide - Background

MLX belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. This protein may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4.

MLX Antibody (Center) Blocking Peptide - References

Meroni,G., et.al., Oncogene 19 (29), 3266-3277 (2000)Billin,A.N., et.al., J. Biol. Chem. 274 (51), 36344-36350 (1999)

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Name MLX

Synonyms BHLHD13, TCFL4

Function
Transcription regulator. Forms a sequence-specific DNA- binding protein complex with MAD1, MAD4, MNT, WBSCR14 and MLXIP which recognizes the core sequence 5'-CACGTG-3'. The TCFL4-MAD1, TCFL4-MAD4, TCFL4-WBSCR14 complexes are transcriptional repressors. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation.

Cellular Location
[Isoform Alpha]: Cytoplasm. Note=Found predominantly in the cytoplasm (PubMed:10918583). [Isoform Gamma]: Nucleus. Note=Found predominantly in the nucleus (PubMed:10918583).

Tissue Location
Expressed in all tissues tested, including spleen, thymus, prostate, ovary, intestine, colon, peripheral blood leukocyte, heart, liver, skeletal muscle and kidney. Lower levels of expression in testis, brain, placenta and lung.

MLX Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides