

MLXIP Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10228a**Specification**

MLXIP Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9HAP2](#)
Other Accession [NP_055753.3](#)

MLXIP Antibody (N-term) Blocking peptide - Additional Information

Gene ID 22877

Other Names

MLX-interacting protein, Class E basic helix-loop-helix protein 36, bHLHe36, Transcriptional activator MondoA, MLXIP ([HGNC:17055](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=17055))

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.

MLXIP Antibody (N-term) Blocking peptide - Protein Information

Name MLXIP ([HGNC:17055](#))

Function

Binds DNA as a heterodimer with MLX and activates transcription. Binds to the canonical E box sequence 5'-CACGTG-3'. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation.

Cellular Location

Cytoplasm. Nucleus {ECO:0000255|PROSITE- ProRule:PRU00981, ECO:0000269|PubMed:12446771, ECO:0000269|PubMed:16782875}. Mitochondrion outer membrane Note=Predominantly cytoplasmic but shuttles between cytoplasm and nucleus when associated with MLX. Also associates with the outer mitochondrial membrane and may shuttle between the outer mitochondrial membrane and the nucleus. {ECO:0000250|UniProtKB:Q2VPU4, ECO:0000269|PubMed:12446771, ECO:0000269|PubMed:16782875}

Tissue Location

Widely expressed in adult tissues. Most abundant in skeletal muscle.

MLXIP Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MLXIP Antibody (N-term) Blocking peptide - Images

MLXIP Antibody (N-term) Blocking peptide - Background

MONDOA forms heterodimers with MLX (MIM 602976) that can bind to and activate transcription from CACGTG E boxes (Billin et al., 2000 [PubMed 11073985]).

MLXIP Antibody (N-term) Blocking peptide - References

Peterson, C.W., et al. Mol. Cell. Biol. 30(12):2887-2895(2010) Kaadige, M.R., et al. Proc. Natl. Acad. Sci. U.S.A. 106(35):14878-14883(2009) Stoltzman, C.A., et al. Proc. Natl. Acad. Sci. U.S.A. 105(19):6912-6917(2008) Sans, C.L., et al. Mol. Cell. Biol. 26(13):4863-4871(2006) Bornhauser, B.C., et al. J. Biol. Chem. 278(37):35412-35420(2003)