

MLXIP Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10228a**Specification**

MLXIP Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q9HAP2
Other Accession	Q2VPU4 , NP_055753.3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	101185
Antigen Region	72-100

MLXIP Antibody (N-term) - Additional Information**Gene ID** 22877**Other Names**

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

Target/Specificity

This MLXIP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-100 amino acids from the N-terminal region of human MLXIP.

Dilution

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MLXIP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MLXIP Antibody (N-term) - 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

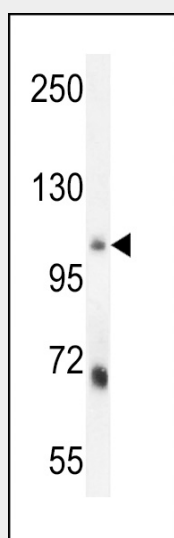
Widely expressed in adult tissues. Most abundant in skeletal muscle.

MLXIP Antibody (N-term) - Protocols

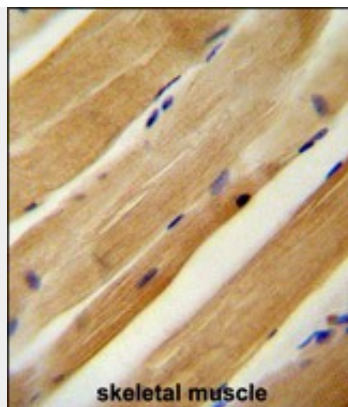
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MLXIP Antibody (N-term) - Images



MLXIP Antibody (N-term) (Cat. #AP10228a) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the MLXIP antibody detected the MLXIP protein (arrow).



MLXIP antibody (N-term) (Cat. #AP10228a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MLXIP antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

MLXIP Antibody (N-term) - 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) - References

Peterson, C.W., et al. Mol. Cell. Biol. 30(12):2887-2895(2010)
Kadige, 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)