

For Research Use Only

# MLXIP Polyclonal antibody

Catalog Number: 13614-1-AP

Featured Product

20 Publications



## Basic Information

**Catalog Number:**

13614-1-AP

**Size:**

450 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4519

**GenBank Accession Number:**

BC039704

**GeneID (NCBI):**

22877

**UNIPROT ID:**

Q9HAP2

**Full Name:**

MLX interacting protein

**Calculated MW:**

919 aa, 100 kDa

**Observed MW:**

130 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, ChIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB : K-562 cells,

IP : K-562 cells,

IHC : human skeletal muscle tissue, mouse skeletal muscle tissue

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Mlx-interacting protein (MLXIP), after forming heterodimers with MLX, can bind to and then activate transcription from CACGTG E boxes. The N terminus of MLXIP acts as a CRM1-dependent nuclear export signal and contribute to the cytoplasmic localization of the complex, and as a binding site for 13 protein. The C terminus contains a cytoplasmic localization signal and mediates protein-protein interaction of MONDOA and MLX. The complex play a role in transcriptional activation of glycolytic target genes and glucose-responsive gene regulation. This antibody could recognize isoform1 (~110kd) and isoform3 (~69kd) of MLXIP. A prominent and specific MLXIP of approximately 130 kDa was detected. It demonstrates that MLXIP associated specifically with Mlx in the cytoplasm (PMID: 11073985).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhizhou Ye	30037981	Mol Cell Biol	WB
Hei-Man Chow	31636448	Nat Neurosci	chIP
Patrick A Carroll	34669700	PLoS Biol	WB, IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

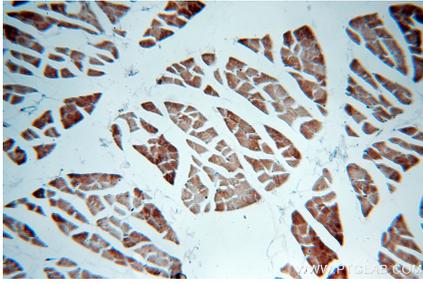
T: 4006900926

E: Proteintech-CN@ptglab.com

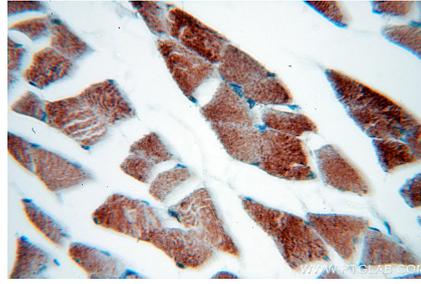
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



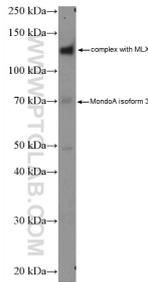
Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 13614-1-AP (MLXIP antibody) at dilution of 1:100 (under 10x lens).



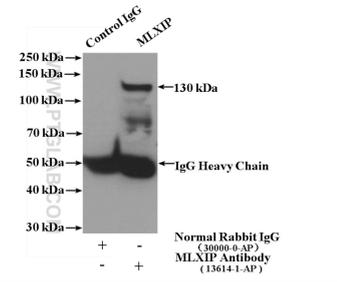
Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 13614-1-AP (MLXIP antibody) at dilution of 1:100 (under 40x lens).



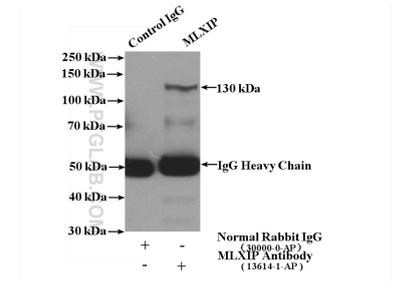
Immunofluorescent analysis of HepG2 cells, using MLXIP antibody 13614-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



K-562 cells were subjected to SDS PAGE followed by western blot with 13614-1-AP (MLXIP Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-MLXIP (IP:13614-1-AP, 4ug; Detection:13614-1-AP 1:300) with K-562 cells lysate 3200ug.



IP result of anti-MLXIP (IP:13614-1-AP, 4ug; Detection:13614-1-AP 1:300) with K-562 cells lysate 3200ug.