

For Research Use Only

# MTPN Polyclonal antibody

Catalog Number: 13508-1-AP

2 Publications



## Basic Information

### Catalog Number:

13508-1-AP

### Size:

150ul, Concentration: 850 ug/ml by Nanodrop and 447 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4419

### GenBank Accession Number:

BC028093

### GeneID (NCBI):

136319

### UNIPROT ID:

P58546

### Full Name:

myotrophin

### Calculated MW:

118 aa, 13 kDa

### Observed MW:

12 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

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

### Positive Controls:

WB : HEK-293T cells, human brain tissue, HeLa cells, Jurkat cells

IHC : human normal colon, human heart tissue

## Background Information

Myotrophin (MTPN) is a ubiquitously expressed 12 kDa cytoplasmic protein that was first isolated from the hearts of spontaneously hypertensive rats. Protein sequence analysis revealed that MTPN was composed of 118 amino acids and was occupied by two and a half internal 33 amino acid ankyrin repeats. MTPN stimulates protein synthesis and increases the expression of a number of cardiac marker genes (such as atrial natriuretic factor and b-myosin heavy chain) in cardiomyocytes leading to hypertrophy. In skeletal muscle, MTPN is also a positive growth factor in promoting skeletal muscle growth.

## Notable Publications

Author	Pubmed ID	Journal	Application
Masataka Nomoto	34857990	J Clin Biochem Nutr	IHC
Roni Levy	12015537	Am J Obstet Gynecol	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

\*\*\* 20ul sizes contain 0.1% BSA

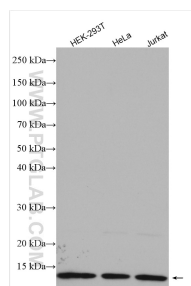
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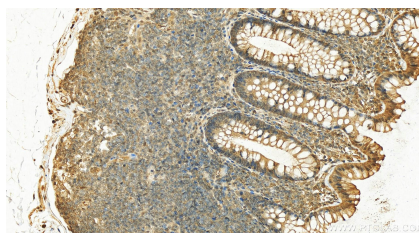
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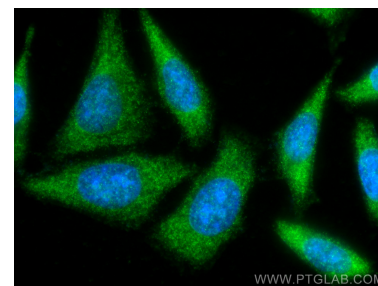
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13508-1-AP (MTPN antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13508-1-AP (MTPN antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MTPN antibody (13508-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).