

For Research Use Only

MTPN Polyclonal antibody

Catalog Number: 13508-1-AP **2 Publications**



Basic Information

Catalog Number: 13508-1-AP	GenBank Accession Number: BC028093	Purification Method: Antigen affinity purification
Size: 850 µg/ml	GeneID (NCBI): 136319	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	UNIPROT ID: P58546	
Isotype: IgG	Full Name: myotrophin	
Immunogen Catalog Number: AG4419	Calculated MW: 118 aa, 13 kDa Observed MW: 12 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : HEK-293T cells, human brain tissue, HeLa cells, Jurkat cells IHC : human cerebellum tissue, human heart tissue IF : HepG2 cells, Hela cells
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

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

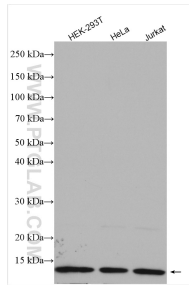
Storage

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

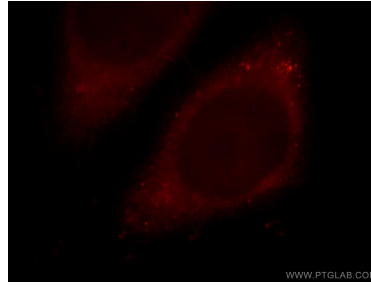
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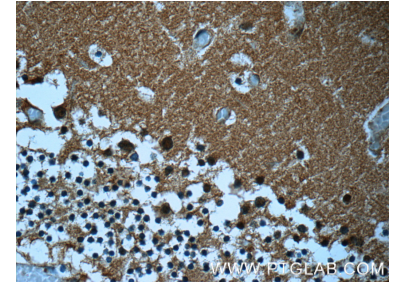
Selected Validation Data



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.



Immunofluorescent analysis of HepG2 cells, using MTPN antibody 13508-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 13508-1-AP (MTPN Antibody) at dilution of 1:50 (under 40x lens).