

For Research Use Only

MPC1 Polyclonal antibody

Catalog Number: 30868-1-AP



Basic Information

Catalog Number: 30868-1-AP	GenBank Accession Number: BC000810	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 ug/ml by Nanodrop;	GeneID (NCBI): 51660	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: Q9Y5U8	
Isotype: IgG	Full Name: brain protein 44-like	
Immunogen Catalog Number: AG28826	Calculated MW: 12 kDa	
	Observed MW: 12 kDa, 20-24 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HL-60 cells,
Species Specificity: human	

Background Information

MPC1, also known as BRP44L. BRP44L is predicted to be located in Mitochondrion inner membrane. The protein forms a heterodimer with MPC2, and the heterodimer is a more stable and dominant form (PMID:26253029, PMID:32403431). Mpc1 and Mpc2 associate to form an ~150-kilodalton complex in the inner mitochondrial membrane. Yeast and Drosophila mutants lacking MPC1 display impaired pyruvate metabolism, with an accumulation of upstream metabolites and a depletion of tricarboxylic acid cycle intermediates. Loss of yeast Mpc1 results in defective mitochondrial pyruvate uptake, and silencing of MPC1 or MPC2 in mammalian cells impairs pyruvate oxidation. A point mutation in MPC1 provides resistance to a known inhibitor of the mitochondrial pyruvate carrier (PMID: 22628558). The molecular weight of MPC1 is 12 kDa.

Storage

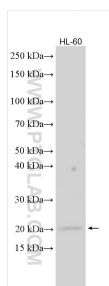
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30868-1-AP (BRP44L antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.