

For Research Use Only

MFN1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87246-1-PBS



Basic Information

Catalog Number: 87246-1-PBS	GenBank Accession Number: BC040557	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 55669	CloneNo.: 250228A9
Source: Rabbit	UNIPROT ID: Q8IWA4	
Isotype: IgG	Full Name: mitofusin 1	
Immunogen Catalog Number: AG4762	Calculated MW: 741 aa, 84 kDa	
	Observed MW: 84 kDa	

Applications

Tested Applications:
WB, IHC, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Mitofusin-1 (MFN1) is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). Mitofusins are large predicted GTPases located in the outer mitochondrial membrane. They are essential for outer membrane fusion by interacting with each other to facilitate mitochondrial targeting. The mitofusins are the first known protein mediator of mitochondrial fusion, and mediate developmentally regulated post-meiotic fusion of mitochondria. Mfn1 is required on adjacent mitochondria to mediate fusion via interactions of a heptad repeat region that mediates oligomerization of the protein (PMID:16892085). Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy (PMID: 20871098).

Storage

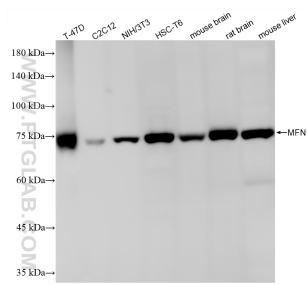
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

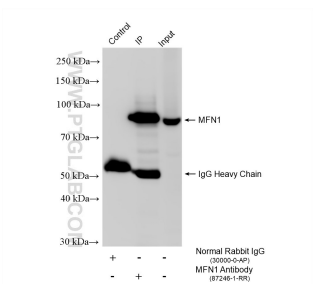
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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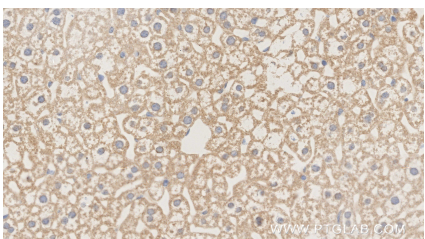
Selected Validation Data



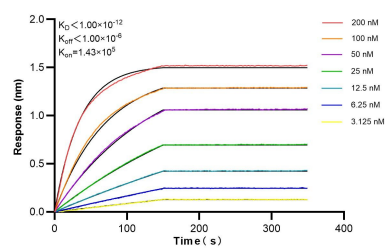
Various lysates were subjected to SDS PAGE followed by western blot with 87246-1-RR (MFN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87246-1-PBS in a different storage buffer formulation.



IP result of anti-MFN1 (IP:87246-1-RR, 4ug; Detection:87246-1-RR 1:1000) with T-47D cells lysate 1120 ug. This data was developed using the same antibody clone with 87246-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 87246-1-RR (MFN1 antibody) at dilution of 1:3000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87246-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87246-1-RR against Human MFN1 were performed. The affinity constant is below 1 pM.