

For Research Use Only

PTPIP51 Monoclonal antibody, PBS Only

Catalog Number: 68582-1-PBS



Basic Information

Catalog Number: 68582-1-PBS	GenBank Accession Number: BC008970	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 55177	CloneNo.: 1G11E2
Source: Mouse	UNIPROT ID: Q96TC7	
Isotype: IgG1	Full Name: family with sequence similarity 82, member A2	
Immunogen Catalog Number: AG15135	Calculated MW: 470 aa, 52 kDa	
	Observed MW: 52-60 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human

Background Information

Protein tyrosine phosphatase-interacting protein 51 (PTPIP51), also known as RMDN3, is a mitochondrial membrane-anchored protein that interacts with ER membrane-bound VAPB. The VAPB-PTPIP51 interaction impacts on intracellular Ca²⁺ handling (PMID: 22131369, 28345618). PTPIP51 participates in multiple cellular processes, and dysfunction of PTPIP51 is implicated in diseases such as cancer and neurodegenerative disorders (PMID: 28345618). The known initiation sites in the Ptpip51 gene would lead to molecular protein masses of 52, 38 and 30 kDa (PMID: 18854601, 19844996).

Storage

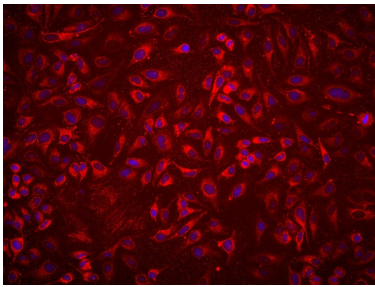
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

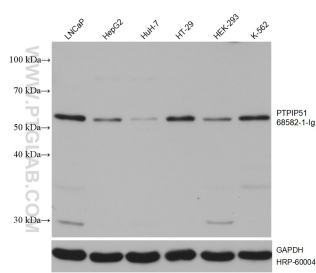
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PTPIP51 antibody (68582-1-Ig, Clone: 1G11E2) at dilution of 1:476 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 68582-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 68582-1-Ig (PTPIP51 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68582-1-PBS in a different storage buffer formulation.