

For Research Use Only

TIP47 Monoclonal antibody, PBS Only



Catalog Number: 66523-1-PBS

Basic Information

Catalog Number: 66523-1-PBS	GenBank Accession Number: BC007566	Purification Method: Protein G purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10226	CloneNo.: 4C11B1
Source: Mouse	UNIPROT ID: O60664	
Isotype: IgG1	Full Name: mannose-6-phosphate receptor binding protein 1	
Immunogen Catalog Number: AG1028	Calculated MW: 47 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications:
WB, IF, IHC, Indirect ELISA

Species Specificity:
Human, mouse

Background Information

Mannose 6-phosphate receptors (M6PRs) transport newly synthesized lysosomal hydrolases from the Golgi to prelysosomes and then return to the Golgi for another round of transport. M6PRBP1 (mannose-6-phosphate receptor binding protein 1), also known as TIP47, PLIN3 or PP17, interacts with the cytoplasmic domains of both cation-independent and cation-dependent M6PRs, and is required for endosome-to-Golgi transport. In addition to M6PR recycling, M6PRBP1 plays a role in lipid droplet biogenesis, and is also implicated in rhodopsin photobleaching and viral infection. M6PRBP1 has been found to be expressed in a variety of human tissues (including colon, liver and lung parenchyme, mammary gland, and skin) and is overexpressed in certain cancer cell lines. It binds to lipid droplets and also occurs in cytosol and on endosomal membranes.

Storage

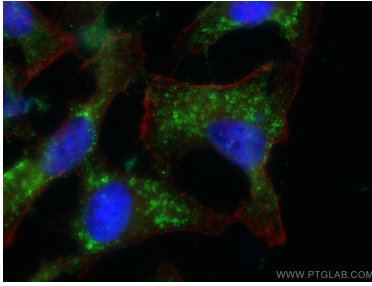
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

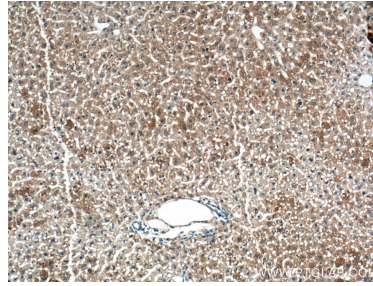
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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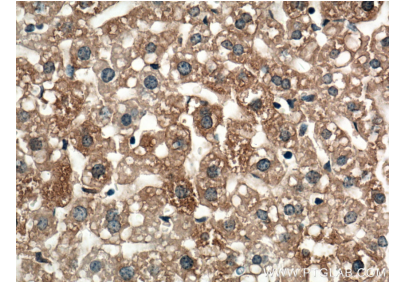
Selected Validation Data



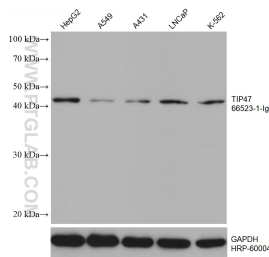
Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using TIP47 antibody (66523-1-Ig, Clone: 4C11B1) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The F-actin was stained with CL594-Phalloidin (red). This data was developed using the same antibody clone with 66523-1-PBS in a different storage buffer formulation.



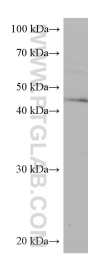
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 66523-1-Ig (TIP47 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66523-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 66523-1-Ig (TIP47 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66523-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66523-1-Ig (TIP47 antibody) at dilution of 1:10000 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 66523-1-PBS in a different storage buffer formulation.



U2OS cells were subjected to SDS PAGE followed by western blot with 66523-1-Ig (TIP47 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66523-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using TIP47 antibody (66523-1-Ig, Clone: 4C11B1) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66523-1-PBS in a different storage buffer formulation.