

For Research Use Only

Mouse PSAP Recombinant monoclonal antibody, PBS Only

Catalog Number: 86043-3-PBS



Basic Information

Catalog Number: 86043-3-PBS	GenBank Accession Number: NM_011179.3	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 19156	CloneNo.: 250312B12
Source: Rabbit	UNIPROT ID: NP_035309.3	
Isotype: IgG	Full Name: prosaposin	
Immunogen Catalog Number: EG3155	Calculated MW: 61 kDa	
	Observed MW: 65-70 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
mouse, rat

Background Information

Prosaposin (PSAP) is also named as Sulfated glycoprotein 1 (SGP-1). PSAP is a secreted neurotrophic factor and a lysosomal protein serving as the precursor of saposins (A-D), which are cofactors for hydrolases of sphingolipids (PMID: 25130661, PMID: 31220974). PSAP modulates glycosphingolipid metabolism and variants have been linked to Parkinson's disease (PD) (PMID: 37726325). As a dual-function protein, PSAP is a lysosome-associated protein that participates in a variety of cellular processes. In the lysosome, PSAP is processed to activate enzymes that degrade lipids. PSAP proteins located extracellularly are involved in cancer progression, such as proliferation and tumor death suppression signaling (PMID: 39405903). Prosaposin (PSAP) has two forms: a precursor and a secreted form. The secreted form has neurotrophic, myelinotrophic, and myotrophic properties. The precursor form is a precursor protein of saposins A-D (PMID: 33242172). Both human and mouse prosaposin are 65-70 kDa proteins cleaved in the lysosomes into four 10-15 kDa proteins designated saposins A, B, C and D (PMID: 8573994). Sulfated glycoprotein-1 (prosaposin) exists in 2 forms: a 65 kDa form targeted to lysosomes and a post-translationally modified to the 70 kDa form secreted extracellularly (PMID: 8593668).

Storage

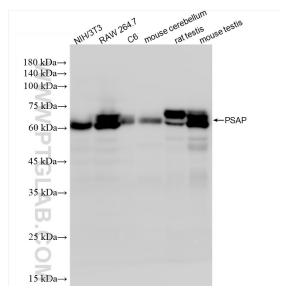
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

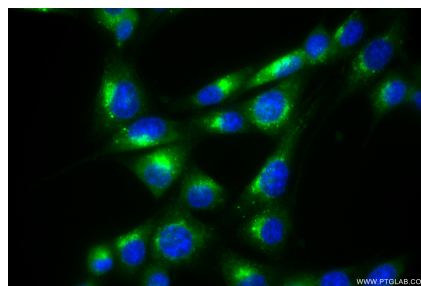
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86043-3-RR (Psap antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86043-3-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using PSAP antibody (86043-3-RR, Clone: 250312B12) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 86043-3-PBS in a different storage buffer formulation.