

For Research Use Only

PSAP Polyclonal antibody

Catalog Number: 10801-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number: 10801-1-AP	GenBank Accession Number: BC001503	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop and 350 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5660	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: prosaposin	
Isotype: IgG	Calculated MW: 58 kDa	
Immunogen Catalog Number: AG1194	Observed MW: 60 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: ELISA, IF, IHC, WB	WB: A431 cells, HeLa cells, HepG2 cells, MCF-7 cells
Species Specificity: human	IHC: human breast cancer tissue,
Cited Species: human, mouse	IF: MCF-7 cells, HEK-293 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The PSAP gene encodes prosaposin, a precursor of four small nonenzymatic glycoproteins termed 'sphingolipid activator proteins' (SAPs) that assist in the lysosomal hydrolysis of sphingolipids. After proteolytic processing of the presaposin protein, these 4 released polypeptides are functional activators. Saposin A is encoded by residues 60 to 143 of PSAP, saposin B by 195 to 275, saposin C by 311 to 390, and saposin D by 405 to 487. There are four 12-14 kDa heatstable glycoproteins. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. Saposins A-D are required for the hydrolysis of certain sphingolipids by specific lysosomal hydrolases. (PMID: 2001789) Defects in PSAP are the cause of Gaucher disease, Tay-Sachs disease, and metachromatic leukodystrophy (PubMed: 2060627, PMID: 15773042). This PSAP antibody (10801-1-AP) is expected to recognize both saposin A and B.

Notable Publications

Author	Pubmed ID	Journal	Application
Costain Willard J WJ	20718007	Proteomics	IHC
Xiaolai Zhou	28541286	Nat Commun	WB
Ruilin Tian	34031600	Nat Neurosci	IF, WB

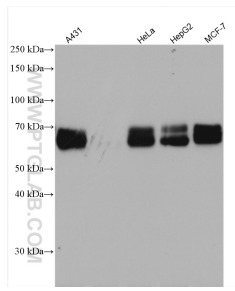
Storage

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

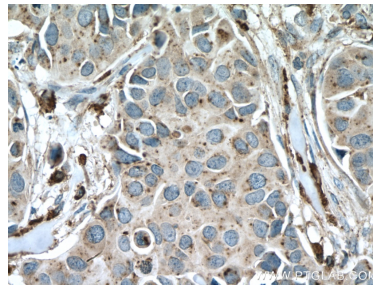
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

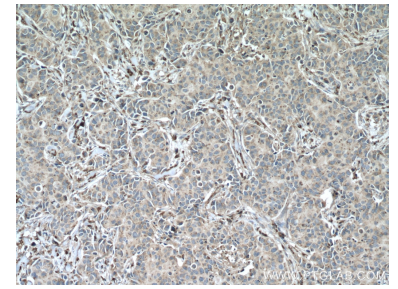
Selected Validation Data



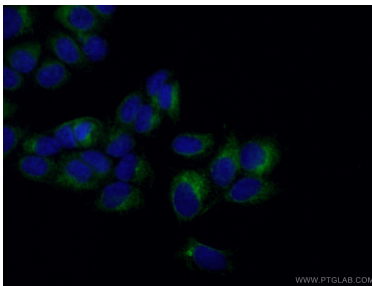
Various lysates were subjected to SDS PAGE followed by western blot with 10801-1-AP (PSAP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 10801-1-AP (PSAP antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).