

For Research Use Only

PSAP Polyclonal antibody

Catalog Number: 10801-1-AP

Featured Product

20 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; | GeneID (NCBI): 5660 | Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500 IF 1:200-1:800 |
| 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

Cited Applications:

ELISA, FC, IF, IHC, WB

Species Specificity:

human

Cited Species:

human, goat, chicken, rat, mouse

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

Positive Controls:

WB: A431 cells, HepG2 cells, HeLa cells, MCF-7 cells

IHC: human breast cancer tissue, mouse cerebellum tissue, mouse spleen tissue

IF: HeLa cells, HEK-293 cells, U-251 cells

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 |
| Yachao He | 36233357 | Int J Mol Sci | WB,IF |
| Sebastian Boland | 36207292 | Nat Commun | 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

*** 20ul sizes contain 0.1% BSA

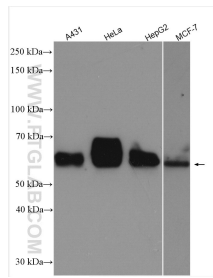
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

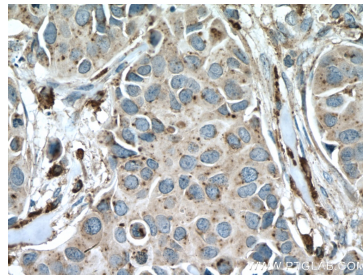
E: proteintech@ptglab.com
W: ptglab.com

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

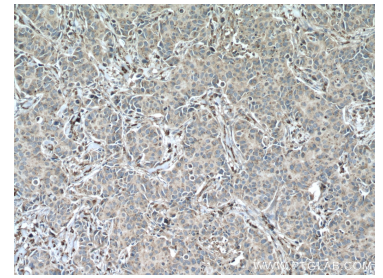
Selected Validation Data



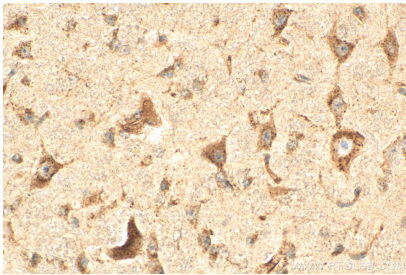
Various lysates were subjected to SDS PAGE followed by western blot with 10801-1-AP (PSAP antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



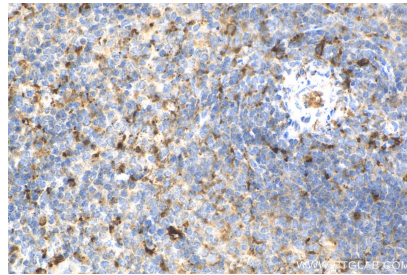
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



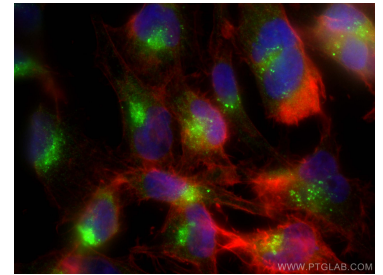
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



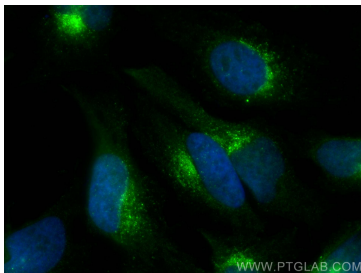
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



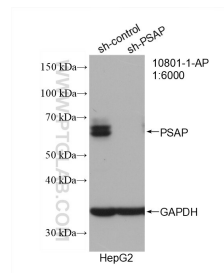
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using PSAP antibody (10801-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PSAP antibody (10801-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of PSAP antibody (10801-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSAP transfected HepG2 cells.