

PSAP Polyclonal Antibody

Catalog number: 10801-1-AP

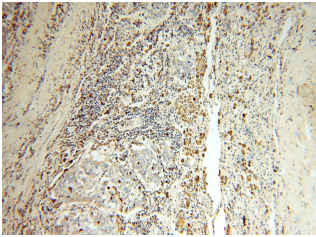
Size: 37 µg/150 µl

Source: Rabbit

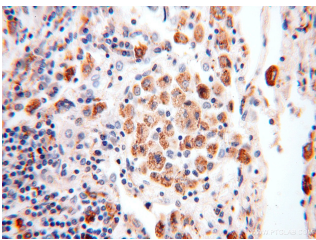
Isotype: IgG

Synonyms:

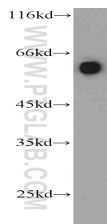
PSAP; A1 activator, Cerebroside sulfate activator, Co beta glucosidase, Component C, CSAct, Dispersin, FLJ00245, GLBA, Glucosylceramidase activator, Proactivator polypeptide, prosaposin, Protein C, PSAP, SAP 1, SAP 2 Saposin D, SAP1



Immunohistochemical of paraffin-embedded human lung cancer using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 10x lens)



Immunohistochemical of paraffin-embedded human lung cancer using 10801-1-AP (PSAP antibody) at dilution of 1:200 (under 40x lens)



HEK-293 cells were subjected to SDS PAGE followed by western blot with 10801-1-AP (PSAP antibody) at dilution of 1:300

Background

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 prosaposin 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.

Read more about this antibody on the blog: <http://blog.ptglab.com/index.php/psap-antibody-uncovers-potential-role-of-prosaposin-in-cancer-survival/>

Applications

Tested applications:	ELISA, IHC, WB
Cited applications:	ELISA, IHC, WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Human, mouse
Calculated PSAP MW:	58 kDa
Observed PSAP MW:	60 kDa
Positive WB detected in	HEK-293 cells, HeLa cells, MCF7 cells, mouse brain tissue
Positive IHC detected in	Human lung cancer tissue, human brain tissue, human kidney tissue, human liver tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue, human testis tissue
Recommended dilution:	WB: 1:200-1:1000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1194
GenBank accession number:	BC001503
Gene ID (NCBI):	5660
Full name:	Prosaposin

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.