

For Research Use Only

# CoraLite® Plus 488-conjugated PSAP Polyclonal antibody



Catalog Number: CL488-10801

Featured Product

## Basic Information

<b>Catalog Number:</b> CL488-10801	<b>GenBank Accession Number:</b> BC001503	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5660	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> prosaposin	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 58 kDa	
<b>Immunogen Catalog Number:</b> AG1194	<b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : HeLa cells,
<b>Species Specificity:</b> human	

## 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.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, 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  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 PSAP antibody (CL488-10801) at dilution of 1:200.