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SAP Antibody (Center E300)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7398c

Product Information

Application	WB, E
Primary Accession	P07602
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18781
Calculated MW	58113
Antigen Region	285-314

Additional Information

Gene ID	5660
Other Names	Prosaposin, Proactivator polypeptide, Saposin-A, Protein A, Saposin-B-Val, Saposin-B, Cerebroside sulfate activator, CSAct, Dispersin, Sphingolipid activator protein 1, SAP-1, Sulfatide/GM1 activator, Saposin-C, A1 activator, Co-beta-glucosidase, Glucosylceramidase activator, Sphingolipid activator protein 2, SAP-2, Saposin-D, Component C, Protein C, PSAP, GLBA, SAP1
Target/Specificity	This SAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 285-314 amino acids from the Central region of human SAP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SAP Antibody (Center E300) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PSAP (HGNC:9498)
Synonyms	GLBA, SAP1

Function	Saposins are specific low-molecular mass non-enzymatic glycoproteins that act as activator proteins for lysosomal sphingolipid-degrading enzymes, facilitating the hydrolysis of sphingolipids by extracting lipid substrates from membranes and presenting them to their respective enzymes. They are derived from a common precursor protein, prosaposin, which is proteolytically cleaved to yield four homologous proteins (saposin A, B, C, and D), each with distinct but partially overlapping lipid and enzyme specificities.
Cellular Location	Lysosome

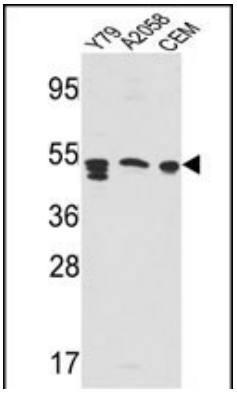
Background

PSAP is a highly conserved glycoprotein which is a precursor for 4 cleavage products: saposins A, B, C, and D. Each domain of the precursor protein is approximately 80 amino acid residues long with nearly identical placement of cysteine residues and glycosylation sites. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory protein and as an integral membrane protein and has neurotrophic activities.

References

Gunia,S., Virchows Arch. 454 (5), 573-579 (2009)
Kuchar,L., Am. J. Med. Genet. A 149A (4), 613-621 (2009)

Images



Western blot analysis of SAP Antibody (Center E300) (Cat. 3AP7398c) in Y79,A2058,CEM cell line lysates(35ug/lane). SAP (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.