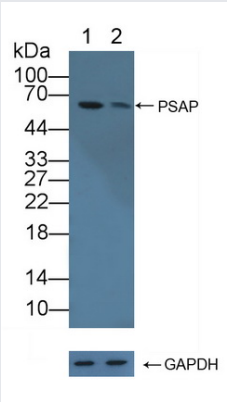
Prosaposin (PSAP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Prosaposin (PSAP), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Prosaposin (PSAP)
Product Gene Name	anti-PSAP antibody
Product Synonym Names	SAP1; GLBA; CSAct; Dispersin; Pro-Saposin; Proactivator polypeptide; Glucosylceramidase activator; Sulfatide/GM1 activator; Cerebroside sulfate activator; Sphingolipid Activator 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Pig
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: PSAP (MBS2027340) FITC Conjugated Antibody: PSAP (MBS2068019)
Matching Pairs	FITC Conjugated Antibody: PSAP (MBS2068019) Immunogen: PSAP (MBS2030167)
Molecular Weight	58,484 Da
OMIM	J03077 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	PSAP (Gly17~N524)
Conjugation	FITC
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2027340
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PSAP antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-PSAP antibody	MBS2068019 is an antibody targeting PSAP. Also known as FITC-Linked Polyclonal Antibody to Prosaposin (PSAP). Reactive in Human, Rat, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-PSAP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Knockout Validation of anti-PSAP antibody
Knockout Validation: Lane 1: Wild-type 293T cell lysate; Lane 2: PSAP knockout 293T cell lysate; Predicted MW: 58kd Observed MW: 60kd Primary Ab: 2ug/ml Rabbit Anti-Human PSAP Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (#MBS2086047)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSAP. It may not necessarily be applicable to this product.

NCBI GI #	17149824
NCBI GeneID	5660
NCBI Accession #	AAC64921.2
UniProt Secondary Accession #	P07292; P15793; P78538; P78541; P78546; P78547; P78558; Q53Y86; Q6IBQ6; Q92739; Q92740
UniProt Related Accession #	P07602
NCBI Official Full Name	prosaposin, partial
NCBI Official Synonym Full Names	prosaposin
NCBI Official Symbol	PSAP
NCBI Official Synonym Symbols	GLBA; SAP1
UniProt Protein Name	Prosaposin
UniProt Synonym Protein Names	Proactivator polypeptide
Protein Family	Prosaposin
UniProt Gene Name	PSAP
UniProt Synonym Gene Names	GLBA; SAP1; CSAct; SAP-1; SAP-2
NCBI Protein Information	prosaposin
NCBI Summary for PSAP	This gene encodes a highly conserved preproprotein that is proteolytically processed to generate four main cleavage products including 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. Mutations in this gene have been associated with Gaucher disease and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

UniProt Comments for PSAP	PSAP: The lysosomal degradation of sphingolipids takes place by the sequential action of specific hydrolases. Some of these enzymes require specific low-molecular mass, non-enzymic proteins: the sphingolipids activator proteins (coproteins). Defects in PSAP are the cause of combined saposin deficiency (CSAPD); also known as prosaposin deficiency. CSAPD is due to absence of all saposins, leading to a fatal storage disorder with hepatosplenomegaly and severe neurological involvement. Defects in PSAP saposin-B region are the cause of leukodystrophy metachromatic due to saposin-B deficiency (MLD- SAPB). MLD-SAPB is an atypical form of metachromatic leukodystrophy. It is characterized by tissue accumulation of cerebroside-3-sulfate, demyelination, periventricular white matter abnormalities, peripheral neuropathy. Additional neurological features include dysarthria, ataxic gait, psychomotr regression, seizures, cognitive decline and spastic quadriparesis. Defects in PSAP saposin-C region are the cause of atypical Gaucher disease (AGD). Affected individuals have marked glucosylceramide accumulation in the spleen without having a deficiency of glucosylceramide-beta glucosidase characteristic of classic Gaucher disease, a lysosomal storage disorder. Defects in PSAP saposin-A region are the cause of atypical Krabbe disease (AKRD). AKRD is a disorder of galactosylceramide metabolism. AKRD features include progressive encephalopathy and abnormal myelination in the cerebral white matter resembling Krabbe disease. Defects in PSAP saposin-D region are found in a variant of Tay-Sachs disease (GM2-gangliosidosis). 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: cytoplasm; extracellular region; extracellular space; integral to membrane; lysosomal lumen; lysosomal membrane; lysosome Molecular Function: enzyme activator activity; G-protein-coupled receptor binding; lipid binding; protein binding Biological Process: G-protein signaling, adenylate cyclase inhibiting pathway; glycosphingolipid metabolic process; lipid transport; platelet degranulation; regulation of autophagy; regulation of lipid metabolic process Disease: Combined Saposin Deficiency; Gaucher Disease, Atypical, Due To Saposin C Deficiency; Krabbe Disease, Atypical, Due To Saposin A Deficiency; Metachromatic Leukodystrophy Due To Saposin B Deficiency
Research Articles on PSAP	**1.** an extensive review of all the PSAP-causative variants published in the literature to date, accounting for a total of 10 PSAP allele types (review)
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