

ARG66349 anti-PSAP antibody [SQab1899]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1899] recognizes PSAP
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1899
Isotype	IgG
Target Name	PSAP
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human PSAP.
Conjugation	Un-conjugated
Alternate Names	Glucosylceramidase activator; SAP-1; Sphingolipid activator protein 1; Component C; Protein C; Proactivator polypeptide; Protein A; Sphingolipid activator protein 2; Cerebroside sulfate activator; A1 activator; Prosaposin; Dispersin; SAP-2; Co-beta-glucosidase; CSAct; SAP1; GLBA; Sulfatide/GM1 activator

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:200

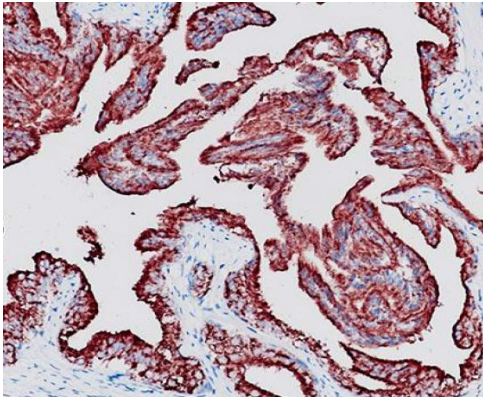
Application Note
IHC-P: Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer (pH 9.0), primary antibody incubate at RT for 30 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformatics

Gene Symbol	PSAP
Gene Full Name	prosaposin
Background	<p>This gene encodes 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. Mutations in this gene have been associated with Gaucher disease, Tay-Sachs disease, and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p>
Function	<p>Saposin-A and saposin-C stimulate the hydrolysis of glucosylceramide by beta-glucosylceramidase (EC 3.2.1.45) and galactosylceramide by beta-galactosylceramidase (EC 3.2.1.46). Saposin-C apparently acts by combining with the enzyme and acidic lipid to form an activated complex, rather than by solubilizing the substrate.</p> <p>Saposin-B stimulates the hydrolysis of galacto-cerebroside sulfate by arylsulfatase A (EC 3.1.6.8), GM1 gangliosides by beta-galactosidase (EC 3.2.1.23) and globotriaosylceramide by alpha-galactosidase A (EC 3.2.1.22). Saposin-B forms a solubilizing complex with the substrates of the sphingolipid hydrolases.</p> <p>Saposin-D is a specific sphingomyelin phosphodiesterase activator (EC 3.1.4.12).</p> <p>Prosaposin: Behaves as a myelinotrophic and neurotrophic factor, these effects are mediated by its G-protein-coupled receptors, GPR37 and GPR37L1, undergoing ligand-mediated internalization followed by ERK phosphorylation signaling.</p> <p>Saposins are specific low-molecular mass non-enzymic proteins, they participate in the lysosomal degradation of sphingolipids, which takes place by the sequential action of specific hydrolases. [UniProt]</p>
Highlight	<p>Related products: PSAP antibodies: Anti-Rabbit IgG secondary antibodies:</p> <p>Related news: Cancer Pathology Markers (SQ clones)</p>
Calculated Mw	58 kDa
PTM	<p>The lysosomal precursor is proteolytically processed to 4 small peptides, which are similar to each other and are sphingolipid hydrolase activator proteins.</p> <p>N-linked glycans show a high degree of microheterogeneity.</p> <p>The one residue extended Saposin-B-Val is only found in 5% of the chains. [UniProt]</p>



ARG66349 anti-PSAP antibody [SQab1899] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded prostate cancer tissue stained with ARG66349 anti-PSAP antibody [SQab1899]. Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer (pH 9.0).