

Product datasheet

Anti-PSAP antibody [PASE/4LJ] ab80717

1 References 画像数 2

製品の概要

製品名	Anti-PSAP antibody [PASE/4LJ]
製品の詳細	Mouse monoclonal [PASE/4LJ] to PSAP
由来種	Mouse
特異性	This antibody does not inhibit the enzymatic activity of PSAP. It reacts with non-neoplastic adult and fetal prostatic glands, primary and metastatic prostatic carcinomas. It shows no cross reaction with other phosphatases.
アプリケーション	<b>適用あり:</b> IHC-P, ICC/IF, Flow Cyt
種交差性	<b>交差種:</b> Human <b>非交差種:</b> Rat, Rabbit, Dog
免疫原	Purified PSAP from Human seminal plasma.
ポジティブ・コントロール	Normal prostate or prostate carcinoma.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: None Constituents: 10mM PBS, pH 7.4
精製度	Protein G purified
特記事項(精製)	Purified from culture supernatant by Protein G chromatography.
ポリ/モノ	モノクローナル
クローン名	PASE/4LJ
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab80717** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		1/1500.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use 0.1µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## ターゲット情報

### 機能

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).

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.

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.

Saposin-D is a specific sphingomyelin phosphodiesterase activator (EC 3.1.4.12).

### 関連疾患

Defects in PSAP are the cause of combined saposin deficiency (CSAPD) [MIM:611721]; 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) [MIM:249900]. 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, psychomotor regression, seizures, cognitive decline and spastic quadriparesis.

Defects in PSAP saposin-C region are the cause of atypical Gaucher disease (AGD) [MIM:610539]. 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) [MIM:611722]. AKRD is a disorder of galactosylceramide metabolism. AKRD features include progressive encephalopathy and abnormal myelination in the cerebral white matter resembling Krabbe disease.

Note=Defects in PSAP saposin-D region are found in a variant of Tay-Sachs disease (GM2-gangliosidosis).

### 配列類似性

Contains 2 saposin A-type domains.

Contains 4 saposin B-type domains.

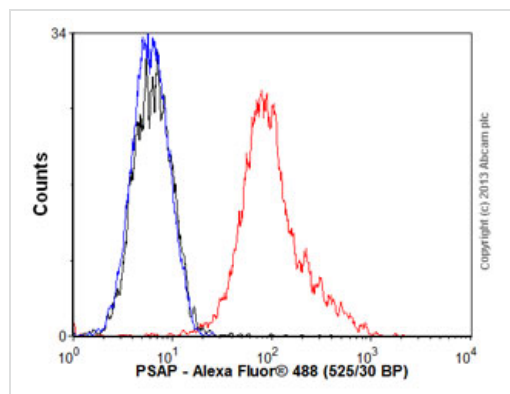
### 翻訳後修飾

This precursor is proteolytically processed to 4 small peptides, which are similar to each other and are sphingolipid hydrolase activator proteins.

N-linked glycans show a high degree of microheterogeneity.

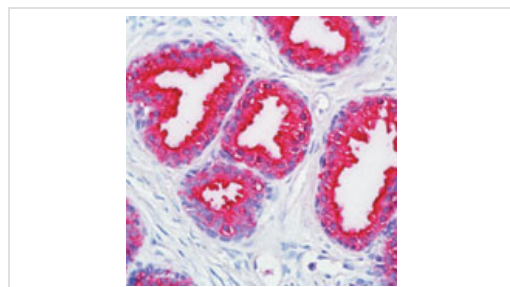
The one residue extended Saposin-B-Val is only found in 5% of the chains.

## 画像



Flow Cytometry - Anti-PSAP antibody [PASE/4LJ] - BSA and Azide free (ab80717)

Overlay histogram showing HepG2 cells stained with ab80717 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab80717, 0.1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - PSAP antibody [PASE/4LJ] - BSA and Azide free (ab80717)

Formalin-fixed, paraffin-embedded human prostate stained with ab80717 at a 1/1500 dilution using alkaline phosphatase-conjugate and fast red chromogen. Note intense cytoplasmic staining of glandular epithelial cells.

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