abcam

Product datasheet

Anti-PSAP antibody ab180751

2 References 画像数 2

製品の概要

製品名	Anti-PSAP antibody
製品の詳細	Rabbit polyclonal to PSAP
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, IHC-P, WB
種交差性	**交差種:** Human
免疫原	Recombinant fragment corresponding to Human PSAP aa 63-310. Sequence: CDICKDVVTAAGDMLKDNATEEEILVYLEKTCDWLPKPNMSA SCKEIVDS YLPVILDIIKGEMSRPGEVCSALNLCESLQKHLAELNHQKQL ESNKIPEL DMTEVVAPFMANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQM VTDIQTAV RTNSTFVQALVEHVKEECDRLGPGMADICKNYISQYSEIAIQ MMMHMQPK EICALVGFCDEVKEMPMQTLVPAKVASKNVIPALELVEPIKK HEVPAK Database link: **P07602** Run BLAST with Run BLAST with
ポジティブ・コントロール	Extracts of HEK293 cells.
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid

保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab180751の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. **ab171870** - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Predicted molecular weight: 58 kDa.

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, psychomotr 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.

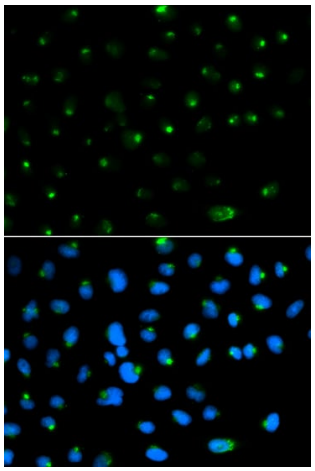
翻訳後修飾

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.

細胞内局在

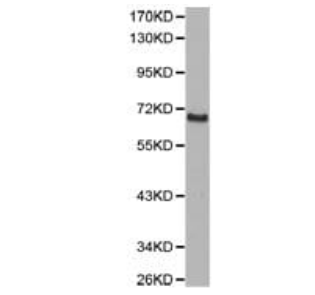
Lysosome.

画像



Immunocytochemistry/ Immunofluorescence - Anti-PSAP antibody (ab180751)

Immunocytochemistry/Immunofluorescence analysis of MCF7 cells using ab180751. Blue DAPI for nuclear staining.



Western blot - Anti-PSAP antibody (ab180751)

Anti-PSAP antibody (ab180751) at 1/500 dilution + Extracts of HEK293 cells

Predicted band size: 58 kDa

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