abcam

ab300470

Anti-PSAP antibody [EPR25650-11] (BSA and Azide free)

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR25650-11
Purification technique	Affinity purification Protein A
Concentration	1.012 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat, Mouse
Dilution info	-

Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Rat, Mouse
Dilution info	-
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Rat, Mouse
Dilution info	-
Notes	-

Not recommended

Species	Human

Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat, Mouse
Dilution info	-
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information Psap

Function

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. 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). Saposins are specific low-molecular mass non-enzymatic proteins, they participate in the lysosomal degradation of sphingolipids, which takes place by the sequential action of specific hydrolases.

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

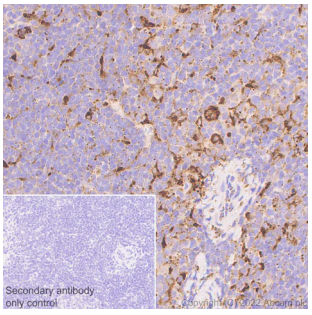
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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13 product images

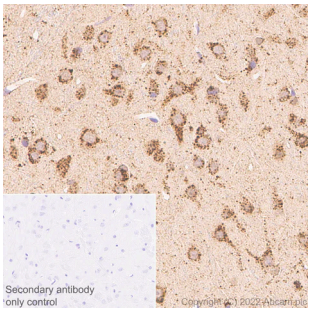


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse spleen using rabbit Anti-PSAP antibody

This data was developed using ab300469, the same antibody clone in a different buffer formulation.Immunohistochemical
Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling PSAP with ab300469 at 1/5000 (0.294 ug/ml) followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used. Positive staining on mouse spleen (PMID: 9570738). The section was incubated with ab300469 for 10 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used.Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

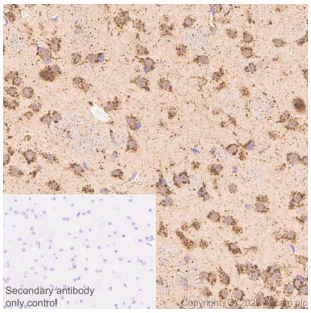
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat cerebral cortex using rabbit Anti-PSAP antibody

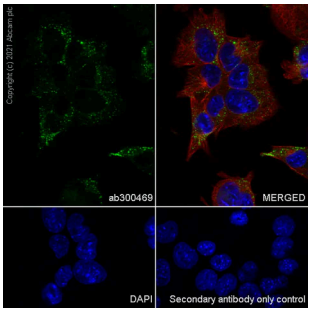
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex tissue labeling PSAP with ab300469 at 1/5000 (0.294 ug/ml) followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used. Positive staining on rat cerebral cortex (PMID: 9570738). The section was incubated with ab300469 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used.Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cerebral cortex using rabbit Anti-PSAP antibody

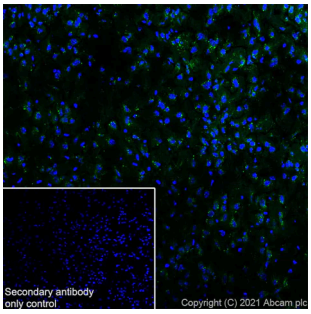
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Mouse cerebral corte tissue labeling PSAP with ab300469 at 1/5000 (0.294 ug/ml) followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used. Positive staining on mouse cerebral cortex. The section was incubated with ab300469 for 10 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used.Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunocytochemistry/ Immunofluorescence staining of Hepa1-6 (mouse hepatoma epithelial cell) using rabbit Anti-PSAP antibody

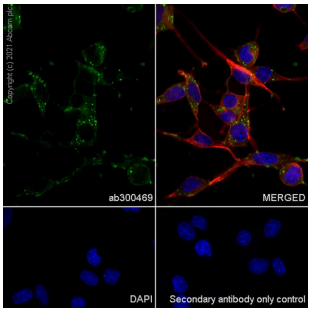
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Hepa1-6 (mouse hepatoma epithelial cell) cells labelling PSAP with ab300469 at 1/50 (11.74 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 µg/mL dilution (Green). Confocal image showing cytoplasmic staining in Hepa1-6 cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor®594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution.



Immunohistochemistry (Frozen sections) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunohistochemistry (Frozen sections) staining of Mouse cortex (fresh) using rabbit Anti-PSAP antibody

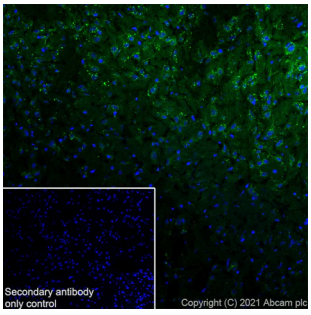
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse cortex (fresh) tissue labeling PSAP with ab300469 at 1/500 (1.174 µg/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution (Green). Positive staining on mouse cortex is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunocytochemistry/ Immunofluorescence staining of C6 (rat glial tumor glial cell) using rabbit Anti-PSAP antibody

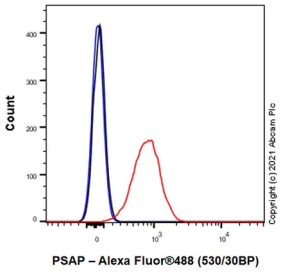
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized C6 (rat glial tumor glial cell) cells labelling PSAP with ab300469 at 1/50 (11.74 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 µg/mL dilution (Green). Confocal image showing cytoplasmic staining in C6 cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution.



Immunohistochemistry (Frozen sections) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Immunohistochemistry (Frozen sections) staining of Rat cortex (fresh) using rabbit Anti-PSAP antibody

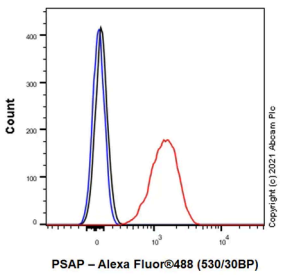
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat cortex (fresh) tissue labeling PSAP with ab300469 at 1/100 (5.87 µg/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution (Green). Positive staining on rat cortex is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution.



Flow Cytometry (Intracellular) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Flow Cytometry (Intracellular) staining of C6 (rat glial tumor glial cell) cells using rabbit Anti-PSAP antibody

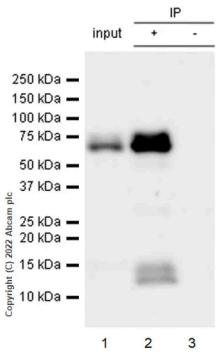
This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized C6 (rat glial tumor glial cell) cells labelling PSAP with ab300469 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Flow Cytometry (Intracellular) staining of Hepa1-6 (mouse hepatoma epithelial cell) cells using rabbit Anti-PSAP antibody

This data was developed using ab300469, the same antibody clone in a different buffer formulation.
Intracelluar flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Hepa1-6 (mouse hepatoma epithelial cell) cells labelling PSAP with ab300469 at 1/500 dilution (0.1 µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

This data was developed using ab300470, the same antibody clone in a different buffer formulation.
PSAP was immunoprecipitated from 0.35 mg Hepa1-6 (mouse hepatoma epithelial cell), whole cell lysate 10 µg with ab300469 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300469 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP)(ab131366) was used at 1/5000 dilution. Lane 1: Hepa1-6 (mouse hepatoma epithelial cell), whole cell lysate 10 µg Lane 2: ab300469 IP in Hepa1-6 whole cell lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab300469 in Hepa1-6 whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 32 seconds

Lane 1:
Immunoprecipitation - Anti-PSAP antibody [EPR25650-11] (ab300469) at 1/30 dilution

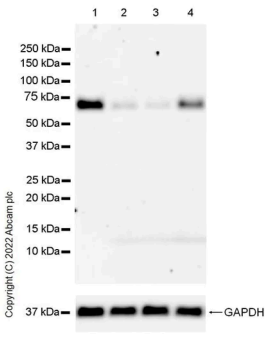
Lane 2:
Immunoprecipitation - Anti-PSAP antibody [EPR25650-11] (ab300469) at 1/1000 dilution

All lanes:
Hepa1-6 whole cell lysate at 10 µg

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 32s



Western blot - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Western blot staining using rabbit Anti-PSAP antibody

This data was developed using 300469, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

All lanes:
Western blot - Anti-PSAP antibody [EPR25650-11] (ab300469) at 1/1000 dilution

Lane 1:
NIH/3T3 (mouse embryonic fibroblast) transfected with scrambled siRNA control, whole cell lysate at 20 µg

Lane 2:
NIH/3T3 transfected with siRNA 1 specifically targeting Prosaposin, whole cell lysate at 20 µg

Lane 3:
NIH/3T3 transfected with siRNA 2 specifically targeting Prosaposin, whole cell lysate at 20 µg

Lane 4:
NIH/3T3 transfected with siRNA 3 specifically targeting Prosaposin, whole cell lysate at 20 µg

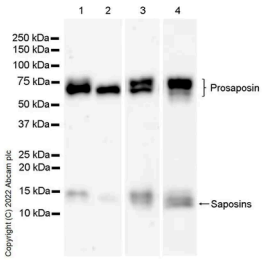
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051)

Predicted band size: 58 kDa

Observed band size: 60-80 kDa

Exposure time: 3min



Western blot - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Western blot staining using rabbit Anti-PSAP antibody

This data was developed using 300469, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28541286).

Exposure time: Lane 1-3: 103 seconds Lane 4: 59 seconds

All lanes:
Western blot - Anti-PSAP antibody [EPR25650-11] (ab300469) at 1/1000 dilution

Lane 1:
Hepa1-6 (mouse hepatoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
Mouse cerebellum tissue lysate at 20 µg

Lane 3:
Mouse testis tissue lysate at 20 µg

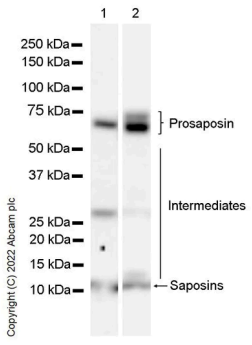
Lane 4:
Rat testis tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 58 kDa

Observed band size: 12 kDa, 60 kDa, 80 kDa



Western blot - Anti-PSAP antibody [EPR25650-11] (BSA and Azide free) (ab300470)

PSAP Western blot staining using rabbit Anti-PSAP antibody

This data was developed using 300469, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28541286).

Exposure time: Lane 1: 3 minutes Lane 2: 70 seconds

All lanes:
Western blot - Anti-PSAP antibody [EPR25650-11] (ab300469) at 1/1000 dilution

Lane 1:
C6 (rat glial tumor glial cell), whole cell lysate at 20 µg

Lane 2:

RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 58 kDa

Observed band size: 12 kDa, 60 kDa, 80 kDa

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