abcam

ab249617

Anti-ASAH2B antibody [EPR10539] - 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	EPR10539
Purification technique	Affinity purification Protein A

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information ASAH2B

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

ab249617 is the carrier-free version of ab170949.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ASAH2B also known as neutral ceramidase B is an enzyme involved in the metabolism of sphingolipids. It has a molecular mass of roughly 100 kDa. The enzyme functions by hydrolyzing ceramides into sphingosine and free fatty acid in a neutral pH environment. ASAH2B is expressed in various tissues including the

	brain kidney and liver. Its activity contributes significantly to maintaining the balance of sphingolipid-mediated cellular processes.
Biological function summary	ASAH2B impacts cell signaling and microsomal integrity by regulating sphingosine levels. It is not known to be part of a larger complex but it still plays an important role in the ceramide catabolic process. Sphingosine produced by ASAH2B can influence many cellular functions such as apoptosis proliferation and differentiation. It modulates the levels of bioactive lipids impacting cellular homeostasis.
Pathways	The enzyme is integral to the sphingolipid metabolism pathway. By breaking down ceramides ASAH2B facilitates interactions in the sphingolipid signaling pathway which is important for cell fate decisions. ASAH2B works in conjunction with proteins like sphingosine kinase which further converts sphingosine into sphingosine-1-phosphate another signaling molecule essential for cell growth and survival.
Associated diseases and disorders	ASAH2B dysregulation associates with conditions such as neurodegenerative diseases and cancer. Improper ceramide metabolism influenced by ASAH2B activity may contribute to these pathological states. For instance altered levels of ASAH2B can disrupt normal apoptotic signaling pathways linking it to cancer progression. It also interacts with proteins like ceramide synthase which play roles in these diseases by affecting the balance of pro-apoptotic and pro-growth signals.

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

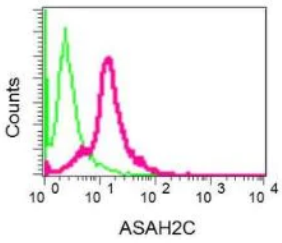
We do not recommend this combination. It is not covered by our product promise.

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.

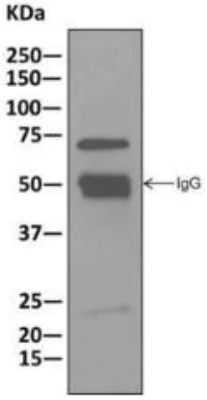
3 product images



Flow Cytometry (Intracellular) - Anti-ASAH2B antibody [EPR10539] - BSA and Azide free (ab249617)

ASAH2B Flow Cytometry (Intracellular) staining using rabbit Anti-ASAH2B antibody

This data was developed using ab170949, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized 293 cells labeling ASAH2C using ab170949 at 1/10 dilution (red) or a rabbit IgG negative (green).

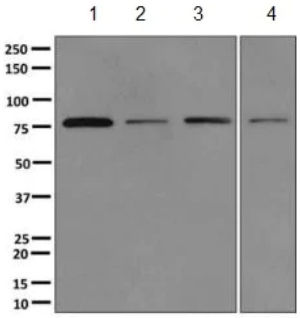


Immunoprecipitation - Anti-ASAH2B antibody [EPR10539] - BSA and Azide free (ab249617)

This data was developed using ab170949, the same antibody clone in a different buffer formulation.
All lanes:
Immunoprecipitation - Anti-ASAH2B antibody [EPR10539] (ab170949) at 1/10 dilution

All lanes:
HeLa cell lysate at 10 µg

Predicted band size: 19 kDa



Western blot - Anti-ASAH2B antibody [EPR10539] - BSA and Azide free (ab249617)

This data was developed using ab170949, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ASAH2B antibody [EPR10539] (ab170949) at 1/1000 dilution

Lane 1:
HeLa cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
293T cell lystae at 10 µg

Lane 4:
Fetal heart tissue lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 19 kDa

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