abcam

ab250938

Anti-TAGAP antibody [EPR15593] - 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	EPR15593

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information TAGAP

Function	May function as a GTPase-activating protein and may play important roles during T-cell activation.

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

ab250938 is the carrier-free version of ab187664.

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	TAGAP also known as T-cell activation RhoGTPase activating protein acts as a Rho GTPase-activating protein involved in the regulation of the actin cytoskeleton. It weighs approximately 70 kDa. This protein is particularly expressed in immune cells including T-cells B-cells and dendritic cells. TAGAP plays an important role in the modulation of signaling pathways essential for immune cell activation and function.
Biological function summary	TAGAP contributes to the regulation of immune responses. It influences the rearrangement of the actin cytoskeleton affecting cell movement and activation. Though not a part of a large protein complex TAGAP's ability to manage cytoskeletal dynamics is critical in immune cells such as T-cells enabling proper response to antigens.
Pathways	TAGAP is significant in the T-cell receptor signaling and actin cytoskeleton regulation pathways. These pathways facilitate immune cell activation and migration key processes in immune response. TAGAP mediates interactions with proteins like Rac1 involved in cytoskeletal organization and Vav1 a guanine nucleotide exchange factor that activates pathways necessary for the immune response.
Associated diseases and disorders	TAGAP's function links to autoimmune diseases like multiple sclerosis and rheumatoid arthritis. Altered TAGAP expression or function can influence disease susceptibility making it a target for research. Through autoimmune-related pathways TAGAP interacts with proteins such as IL-2 and STAT4 which are implicated in these disorders highlighting its potential role in influencing immune system balance and disease progression.

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

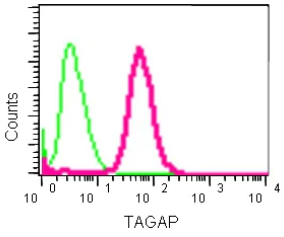
We do not recommend this combination. It is not covered by our product promise.

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.

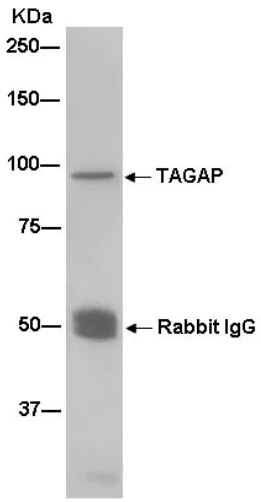
3 product images



Flow Cytometry (Intracellular) - Anti-TAGAP antibody [EPR15593] - BSA and Azide free (ab250938)

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

This data was developed using ab187664, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat cells labeling TAGAP with ab187664 at 1/160 dilution (pink) compared to a Rabbit monoclonal IgG Isotype control (green). Goat anti rabbit IgG (FITC) was used as the secondary antibody at 1/150 dilution.



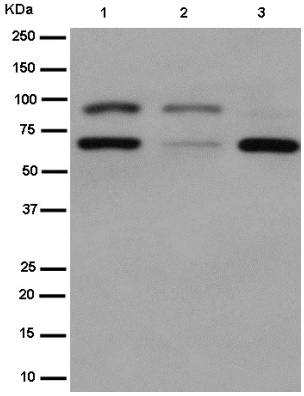
Immunoprecipitation - Anti-TAGAP antibody [EPR15593] - BSA and Azide free (ab250938)

This data was developed using ab187664, the same antibody clone in a different buffer formulation.
Western blot analysis of TAGAP in A549 cell lysate immunoprecipitated with ab187664 at 1/50 dilution.

Secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.

All lanes:
Immunoprecipitation - Anti-TAGAP antibody [EPR15593] (ab187664)

Predicted band size: 81 kDa



Western blot - Anti-TAGAP antibody [EPR15593] - BSA and Azide free (ab250938)

This data was developed using ab187664, the same antibody clone in a different buffer formulation.
Based on sequence analysis, ab187664 recognizes three isoforms with the predicted MWs of 81kDa, 61kDa and 57kDa, respectively.

All lanes:
Western blot - Anti-TAGAP antibody [EPR15593] (ab187664) at 1/1000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

Lane 2:
HepG2 cell lysate at 20 µg

Lane 3:
A549 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 81 kDa

Observed band size: 61 kDa, 81 kDa

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