abcam

ab232615

Anti-ACAP2 antibody [EPR15721] - 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	EPR15721
Purification technique	Affinity purification Protein A

Reactivity data

WB

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information ACAP2

Function	GTPase-activating protein (GAP) for ADP ribosylation factor 6 (ARF6). Doesn't show GAP activity for RAB35 (PubMed:30905672).

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

ab232615 is the carrier-free version of ab191424.

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	ACAP2 also known as ArfGAP with coiled-coil ankyrin repeat and PH domain-containing protein 2 plays a role in cell signaling and membrane trafficking. It has a molecular mass of around 90 kDa and is expressed in various tissues including the brain and kidney. ACAP2 acts as a GTPase-activating protein (GAP) for ADP-ribosylation factor 6 (Arf6) a member of the Arf family which is important in vesicle formation in cellular processes.
Biological function summary	ACAP2 influences cellular processes by regulating actin cytoskeleton remodeling and endocytosis. It is part of a complex that interacts with proteins like phosphatidylinositol 45-bisphosphate which helps localize ACAP2 to specific cellular membranes. The protein's ability to bind and hydrolyze GTP enables changes in cell shape and movement contributing to cellular migration and morphological adjustments.
Pathways	ACAP2 participates in the endocytic pathway which is important for internalizing substances into the cell. It is also involved in the signaling pathway related to the actin cytoskeleton impacting cell motility. In these pathways ACAP2 interacts with proteins such as Arf6 facilitating its function as a regulator of endocytosis and actin dynamics.
Associated diseases and disorders	ACAP2 has been linked to cancer and neurodegenerative diseases. Dysregulation of ACAP2 and its associated proteins like Arf6 can lead to changes in cell adhesion and motility processes often altered in tumor progression. Additionally aberrant ACAP2 function can interfere with normal neurological processes possibly contributing to the pathology of neurodegenerative disorders.

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.

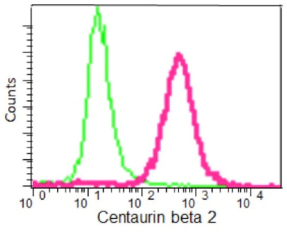
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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1 product image



Flow Cytometry (Intracellular) - Anti-ACAP2 antibody [EPR15721] - BSA and Azide free (ab232615)

ACAP2 Flow Cytometry (Intracellular) staining using rabbit Anti-ACAP2 antibody

Intracellular flow cytometric analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) cells (paraformaldehyde-fixed, 2%)labeling ACAP2 with ab191424 at 1/270 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191424).

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