abcam

ab191424

Anti-ACAP2 antibody [EPR15721]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR15721
Purification technique	Affinity purification Protein A
Concentration	1.377 - 1.497 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1/1000 - 1/10000
Notes	-

Species	Rat

Dilution info	1/1000 - 1/10000
Notes	-

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/270
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

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.

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

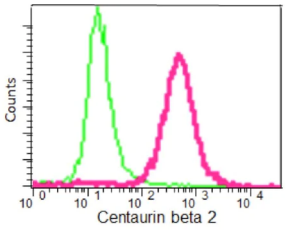
We do not recommend this combination. It is not covered by our product promise.

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.

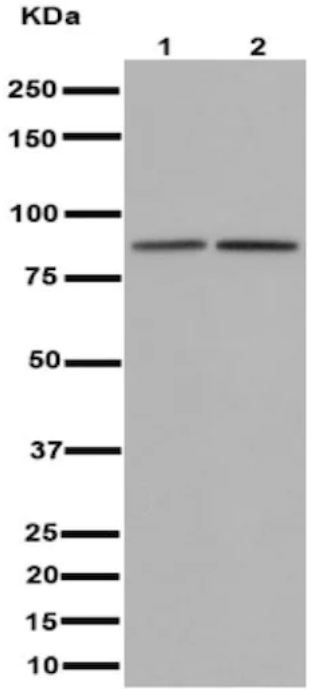
5 product images



Flow Cytometry (Intracellular) - Anti-ACAP2 antibody [EPR15721] (ab191424)

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.



Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424)

All lanes:
Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424) at 1/5000 dilution

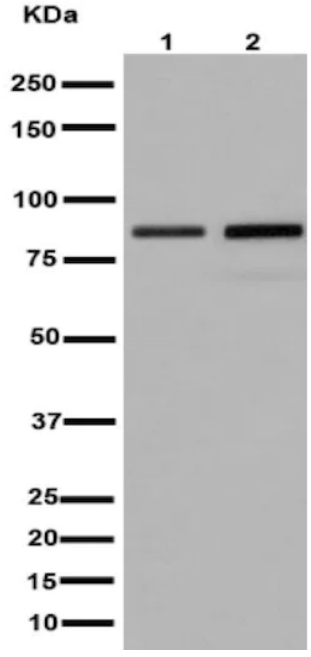
Lane 1:
Human fetal lung lysate at 10 µg

Lane 2:
Human fetal kidney lysate at 10 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 88 kDa



Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424)

All lanes:
Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424) at 1/5000 dilution

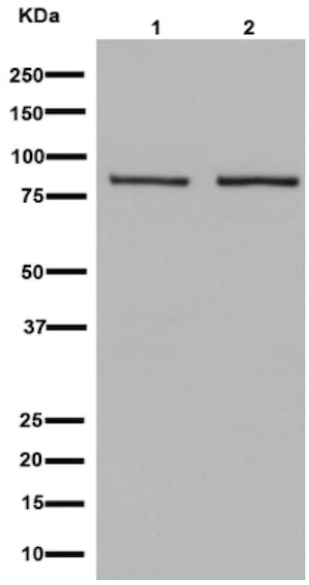
Lane 1:
293 lysate at 10 µg

Lane 2:
MOLT4 lysate at 10 µg

Secondary

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

Predicted band size: 88 kDa



Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424)

All lanes:
Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424) at 1/5000 dilution

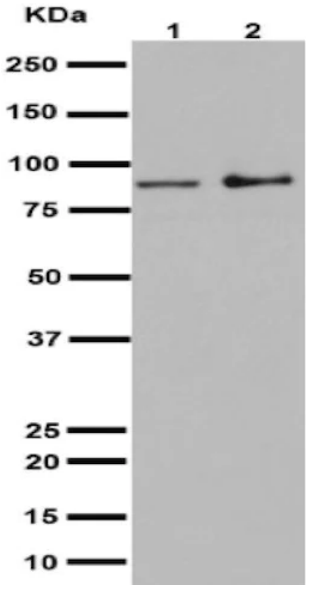
Lane 1:
HeLa lysate at 20 µg

Lane 2:
Jurkat lysate at 20 µg

Secondary

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

Predicted band size: 88 kDa



Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424)

All lanes:
Western blot - Anti-ACAP2 antibody [EPR15721] (ab191424) at 1/1000 dilution

Lane 1:
RAW 264.7 lysate at 10 µg

Lane 2:
PC12 lysate at 10 µg

Secondary

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

Predicted band size: 88 kDa

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