abcam

ab250854

Anti-C7orf42 antibody [EPR15381] - 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	EPR15381
Purification technique	Affinity purification Protein A

Reactivity data

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information TMEM248

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

ab250854 is the carrier-free version of ab185948.

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	C7orf42 also known by some researchers as FAM157A is a protein that has a molecular mass of around 33 kDa. It is expressed in several tissues with noticeable levels in the brain testis and skeletal muscle. This expression pattern suggests a role in specific physiological processes. Currently the detailed mechanical function of C7orf42 remains under study but researchers are actively investigating its role to understand its functions.
Biological function summary	C7orf42 may contribute to cellular homeostasis and signaling dynamics. It does not appear to be a part of any major complex but its independent role in the cellular environment warrants further study. Studies suggest C7orf42 could influence functions such as cellular proliferation and differentiation given its expression in rapidly changing environments like the testis and brain indicative of its participation in dynamic cellular processes.
Pathways	C7orf42 interacts with key signaling cascades. It has associations with the Wnt signaling pathway which is important for cell growth and differentiation. C7orf42 is related to proteins like β-catenin in the Wnt pathway suggesting its possible impact on development and cellular communication. It may also have a role in the PI3K-Akt signaling pathway which strongly influences cellular survival and growth hinting at a broader involvement in regulatory networks.
Associated diseases and disorders	Current research links C7orf42 to certain neurological disorders and metabolic issues. Studies have found correlations with neural development disorders which points to its importance in brain physiology. Its connection with proteins in metabolic pathways also suggests possible implications in metabolic syndrome. Researchers are particularly interested in how it relates to proteins like mTOR a known regulator of cellular metabolism and growth suggesting areas for future investigation.

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

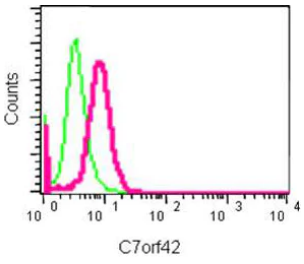
We do not recommend this combination. It is not covered by our product promise.

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.

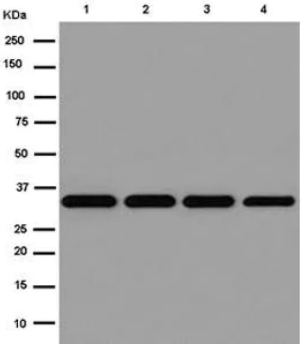
3 product images



Flow Cytometry (Intracellular) - Anti-C7orf42 antibody [EPR15381] - BSA and Azide free (ab250854)

C7orf42 Flow Cytometry (Intracellular) staining using rabbit Anti-C7orf42 antibody

This data was developed using ab185948, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometry analysis of HeLa cells usingab185948 at 1/210 dilution. Secondary ab: Goat anti rabbit IgG (FITC) at 1/150 dilution. Fixative: 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG.



Western blot - Anti-C7orf42 antibody [EPR15381] - BSA and Azide free (ab250854)

C7orf42 Western blot staining using rabbit Anti-C7orf42 antibody

This data was developed using ab185948, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-C7orf42 antibody [EPR15381] (ab185948) at 1/10000 dilution

Lane 1:

Hela cell lysate at 20 µg

Lane 2:
MCF-7 cell lysate at 20 µg

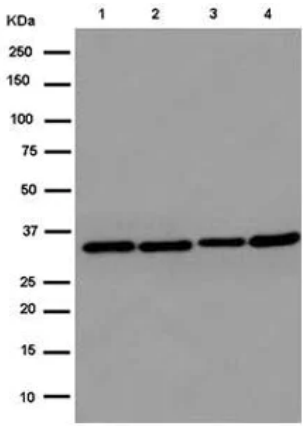
Lane 3:
A549 cell lysate at 20 µg

Lane 4:
HepG2 cell lysate at 20 µg

Secondary

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

Predicted band size: 35 kDa



Western blot - Anti-C7orf42 antibody [EPR15381] - BSA and Azide free (ab250854)

This data was developed using ab185948, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-C7orf42 antibody [EPR15381] (ab185948) at 1/1000 dilution

Lane 1:
C6 cell lysate at 10 µg

Lane 2:
Raw264.7 cell lysate at 10 µg

Lane 3:
PC-12 cell lysate at 10 µg

Lane 4:
NIH/3T3 cell lysate at 10 µg

Secondary

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

Predicted band size: 35 kDa

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