abcam

ab250763

Anti-ACTL8 antibody [EPR13912] - 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	EPR13912
Purification technique	Affinity purification Protein A

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 ACTL8

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

ab250763 is the carrier-free version of ab184562.

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	ACTL8 also known as Actin-Like 8 is a protein with a mass around 45 kDa. This protein is a member of the actin-related proteins that share structural similarities with conventional actin. ACTL8 is mainly expressed in the testis and to a lesser extent in the brain and other tissues. It plays a role in cellular processes that involve cytoskeletal dynamics.
Biological function summary	Actin-Like 8 participates in intracellular transport and cell shape changes. It doesn't appear to form part of a well-defined complex but it may interact with other actin-related proteins and myosins in the testis. Its function is important in the development and maintenance of sperm tail structure suggesting a role in spermatogenesis.
Pathways	ACTL8 is involved in actin cytoskeleton remodeling pathways. It connects to the Wnt signaling pathway which influences cell proliferation and differentiation. ACTL8 may interact with proteins like beta-catenin that bridge Wnt signaling and cytoskeletal organization which is important for cellular adhesion and migration processes.
Associated diseases and disorders	Disturbances in ACTL8 expression have correlations with reproductive disorders such as non-obstructive azoospermia where sperm cells are not produced. It also has connections to neurological conditions given its expression in the brain although this is less well understood. Its interaction with proteins involved in cytoskeletal regulation such as other actins might influence disease states where cell movement and structure are affected.

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

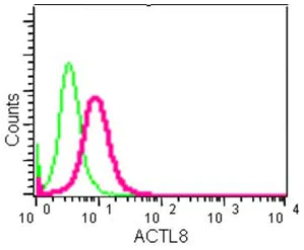
We do not recommend this combination. It is not covered by our product promise.

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.

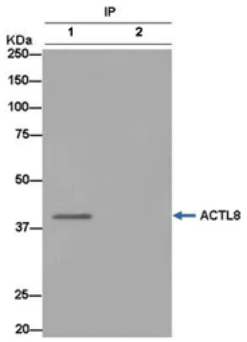
4 product images



Flow Cytometry (Intracellular) - Anti-ACTL8 antibody [EPR13912] - BSA and Azide free (ab250763)

ACTL8 Flow Cytometry (Intracellular) staining using rabbit Anti-ACTL8 antibody

This data was developed using ab184562, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of HeLa cells (paraformaldehyde-fixed, 2%) labeling ACTL8 with ab184562 at 1/160 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



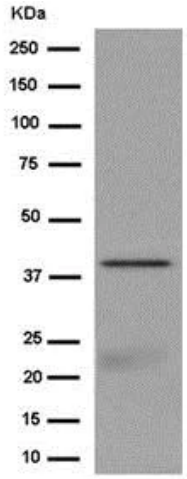
Immunoprecipitation - Anti-ACTL8 antibody [EPR13912] - BSA and Azide free (ab250763)

This data was developed using ab184562, the same antibody clone in a different buffer formulation.
Western blot analysis of immunoprecipitation pellet from HeLa cell lysate (lane 1) or PBS (lane 2) immunoprecipitated using ab184562 at 1/50 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG secondary antibody used at 1/1500 dilution.

All lanes:
Immunoprecipitation - Anti-ACTL8 antibody [EPR13912] (ab184562)

Developed using the ECL technique.

Predicted band size: 41 kDa



Western blot - Anti-ACTL8 antibody [EPR13912] - BSA and Azide free (ab250763)

ACTL8 Western blot staining of Human testis lysate using rabbit Anti-ACTL8 antibody

This data was developed using ab184562, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ACTL8 antibody [EPR13912] (ab184562) at 1/2000 dilution

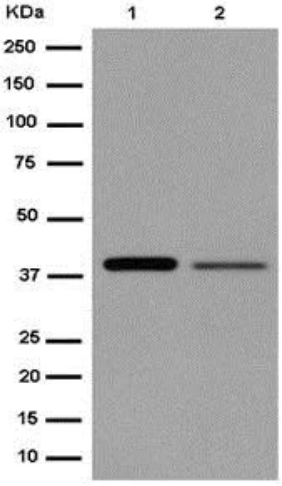
All lanes:
Human testis lysate at 20 µg

Secondary

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

Developed using the ECL technique.

Predicted band size: 41 kDa



Western blot - Anti-ACTL8 antibody [EPR13912] - BSA and Azide free (ab250763)

This data was developed using ab184562, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ACTL8 antibody [EPR13912] (ab184562) at 1/2000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
HepG2 cell lysate at 20 µg

Secondary

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

Developed using the ECL technique.

Predicted band size: 41 kDa

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