abcam

ab249349

Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - 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	EPR9009(2)
Purification technique	Affinity purification Protein A
Concentration	1.033 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat, Mouse, Human
Dilution info	-

Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat, Recombinant fragment - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Human, Rat, Recombinant fragment - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information GRM3

Function	G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity.

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

ab249349 is the carrier-free version of ab166608.

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.

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

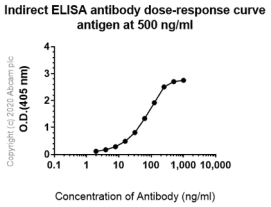
We do not recommend this combination. It is not covered by our product promise.

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.

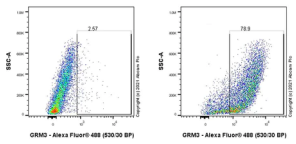
Full details and terms and conditions can be found here:
Terms & Conditions.

7 product images



Indirect ELISA - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

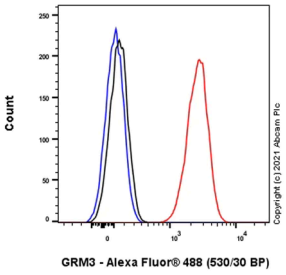
This data was developed using ab166608, the same antibody clone in a different buffer formulation.ELISA analysis of Human MGLUR3 recombinant protein at 500ng/ml with ab166608. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Flow Cytometry - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Metabotropic Glutamate Receptor 3/MGLUR3 Flow Cytometry staining using rabbit Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody

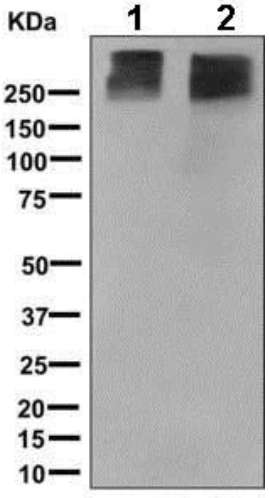
This data was developed using ab166608, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells labelling Metabotropic Glutamate Receptor 3/MGLUR3 with ab166608 at 1/500 dilution (0.1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Metabotropic Glutamate Receptor 3/MGLUR3 Flow Cytometry staining using rabbit Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody

This data was developed using ab166608, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (Mouse neuroblastoma neuroblast) cells labelling Metabotropic Glutamate Receptor 3/MGLUR3 with ab166608 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Metabotropic Glutamate Receptor 3/MGLUR3 Western blot staining using rabbit Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody

This data was developed using ab166608, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] (ab166608) at 1/1000 dilution

Lane 1:
Human cerebellum lysate at 10 µg

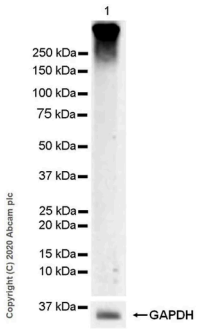
Lane 2:
Human hypothalamus lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 99 kDa

Observed band size: 220 kDa



Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Metabotropic Glutamate Receptor 3/MGLUR3 Western blot staining of Mouse brain tissue lysate using rabbit Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody

This data was developed using ab166608, the same antibody clone in a different buffer formulation.
This blot was developed using a higher sensitivity ECL substrate.

All lanes:
Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] (ab166608) at 1/1000 dilution

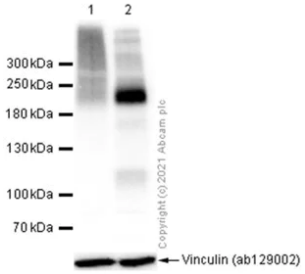
All lanes:
Mouse brain tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 99 kDa

Observed band size: 220 kDa



Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM/TBST. We recommend not to boil the samples after lysis to get desired WB results. This data was developed using ab166608, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] (ab166608) at 1/1000 dilution

Lane 1:
Mouse brain lysate boiled at 20 µg

Lane 2:
Mouse brain lysate unboiled at 20 µg

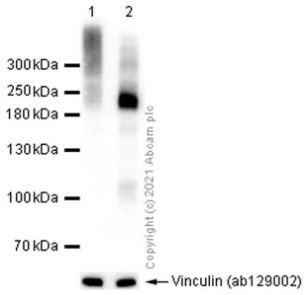
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 99 kDa

Observed band size: 220 kDa

Exposure time: 3s



Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM/TBST. We recommend not to boil the samples after lysis to get desired WB results. This data was developed using ab166608, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] (ab166608) at 1/1000 dilution

Lane 1:
Rat brain lysate boiled at 15 µg

Lane 2:
Rat brain lysate unboiled at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 99 kDa

Observed band size: 220 kDa

Exposure time: 7s

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