

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

Recombinant RabMAb

10 Images

Overview

Product name	Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR9009(2)] to Metabotropic Glutamate Receptor 3/MGLUR3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, Indirect ELISA, ICC/IF Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse and Rat brain tissue lysate. Fetal brain, Human cerebellum and Human hypothalamus tissue lysates; ICC/IF: Mouse primary neuron cells. Flow cyt: Mouse primary neuron and Neuro-2a cells
General notes	<p>ab249349 is the carrier-free version of ab166608.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9009(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249349 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

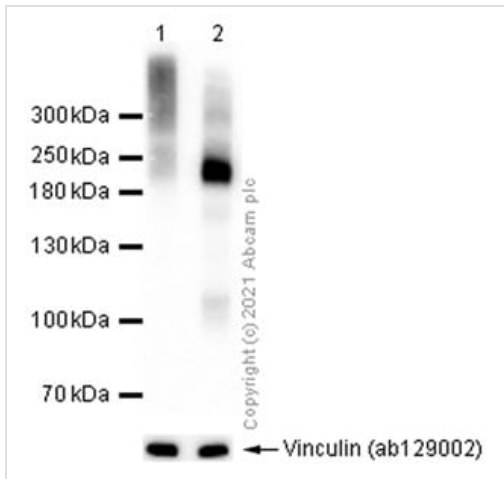
Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 110, 220 kDa (predicted molecular weight: 99 kDa).
Indirect ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity.
Sequence similarities	Belongs to the G-protein coupled receptor 3 family.
Cellular localization	Cell membrane.

Images



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

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

Lane 1 : Rat brain lysate boiled

Lane 2 : Rat brain lysate unboiled

Lysates/proteins at 15 µg per lane.

Secondary

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

Predicted band size: 99 kDa

Observed band size: 220 kDa

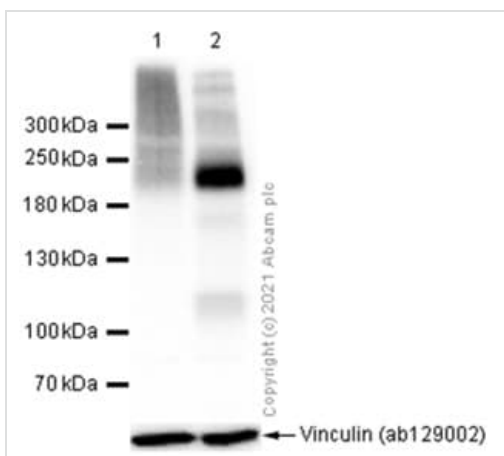
Exposure time: 7 seconds

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.



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

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

Lane 1 : Mouse brain lysate boiled

Lane 2 : Mouse brain lysate unboiled

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 99 kDa

Observed band size: 220 kDa

Exposure time: 3 seconds

Blocking buffer and concentration: 5% NFDm/TBST.

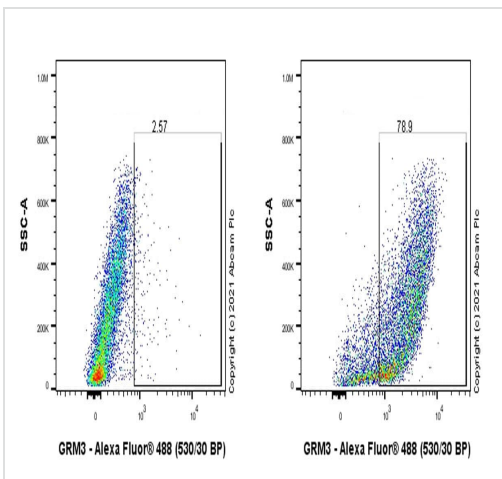
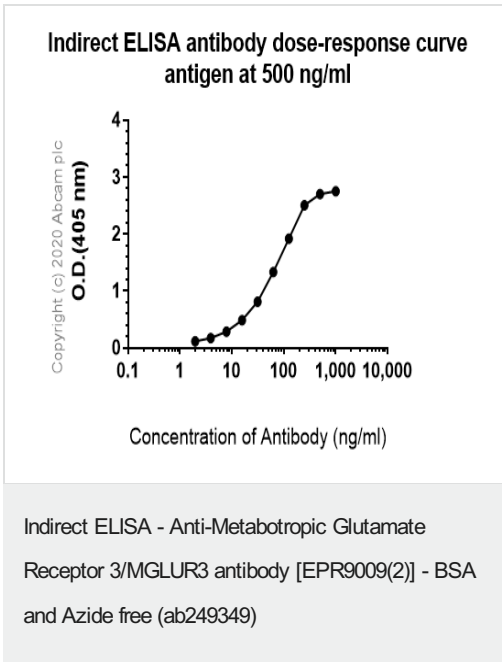
Diluting buffer and concentration: 5% NFDm/TBST.

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.

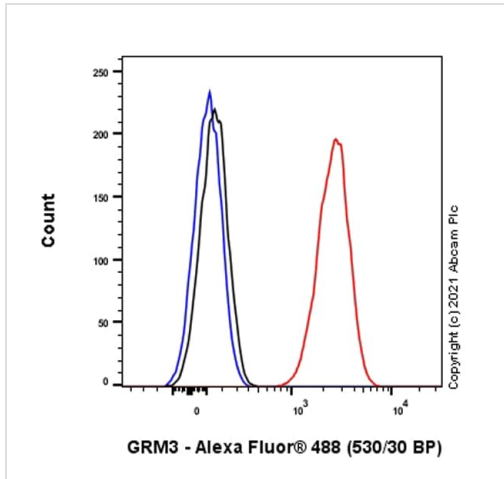
This data was developed using [ab166608](#), the same antibody clone in a different buffer formulation.

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.



This data was developed using [ab166608](#), the same antibody clone in a different buffer formulation.

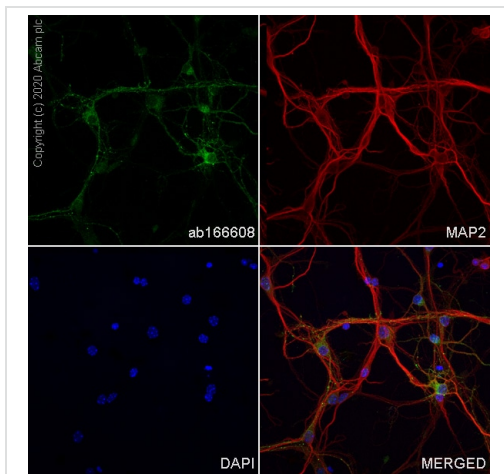
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells labelling Metabotropic Glutamate Receptor 3/MGLUR3 with [ab166608](#) at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG ([ab172730](#)) / Left isotype control and an unlabelled 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)

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.

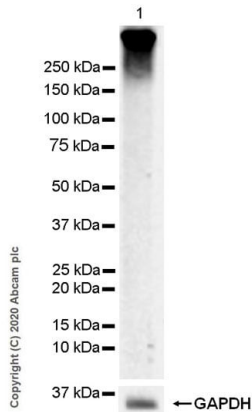


Immunocytochemistry/ Immunofluorescence - Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] - BSA and Azide free (ab249349)

This data was developed using **ab166608**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neuron cells labelling Metabotropic Glutamate Receptor 3/MGLUR3 with **ab166608** at 1/250 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 ug/ml dilution (Green). **ab11267** Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 4 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 2 ug/ml dilution.



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

Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] ([ab166608](#)) at 1/1000 dilution + Mouse brain tissue lysate at 20 µg

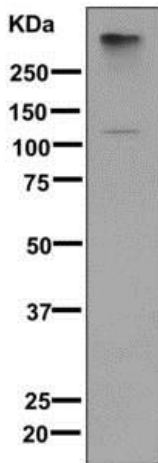
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 99 kDa

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.



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

Anti-Metabotropic Glutamate Receptor 3/MGLUR3 antibody [EPR9009(2)] ([ab166608](#)) at 1/1000 dilution + fetal brain lysate at 10 µg

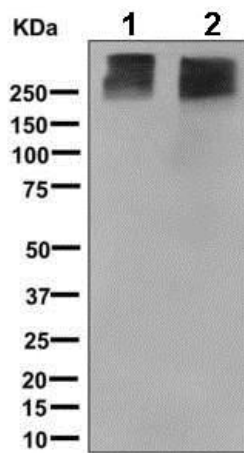
Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 99 kDa

Observed band size: 110,220 kDa

This data was developed using [ab166608](#), the same antibody clone in a different buffer formulation.



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

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

Lane 1 : Human cerebellum lysate

Lane 2 : Human hypothalamus lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 99 kDa

Observed band size: 220 kDa

This data was developed using [ab166608](#), the same antibody clone in a different buffer formulation.

Why choose a recombinant antibody?



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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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