

Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] ab307359

重组 RabMAb

14 图像

概述

| | |
|-------|--|
| 产品名称 | Anti-GABA A Receptor alpha 2/GABRA2抗体[EPR26485-185] |
| 描述 | 兔单克隆抗体[EPR26485-185] to GABA A Receptor alpha 2/GABRA2 |
| 宿主 | Rabbit |
| 特异性 | IHC-P: Unsuitable for human samples ICC/IF: Unsuitable for human samples |
| 经测试应用 | 适用于: WB, IHC-P, IHC-Fr, ICC/IF, IP 不适用于: Flow Cyt (Intra) |
| 种属反应性 | 与反应: Mouse, Rat, Human |
| 免疫原 | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| 阳性对照 | WB: Mouse and rat cerebellum and brain tissue lysate. Human, mouse and rat hippocampus tissue lysate. IHC-P: Human and rat hippocampus tissue. IHC-Fr: Mouse and rat hippocampus (fresh) tissue. ICC/IF: Mouse primary neurons. Rat hippocampal neurons. IP: Mouse cerebellum tissue lysate. |
| 常规说明 | 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 production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . |

性能

| | |
|------|---|
| 形式 | Liquid |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| 存储溶液 | pH: 7.20 |

| | |
|------|--|
| | Preservative: 0.01% Sodium azide |
| | Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | EPR26485-185 |
| 同种型 | IgG |

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab307359于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|--------|------|---|
| WB | | 1/1000. Predicted molecular weight: 51 kDa. |
| IHC-P | | 1/2000. |
| IHC-Fr | | 1/100. |
| ICC/IF | | 1/100. |
| IP | | 1/30. |

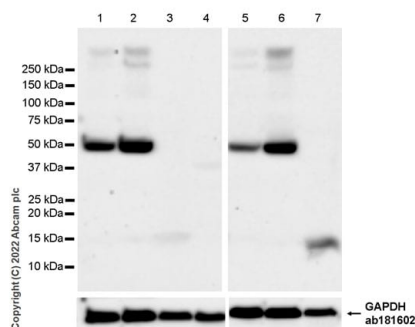
应用说明

Is unsuitable for Flow Cyt (Intra).

靶标

| | |
|-------|--|
| 功能 | GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel. |
| 序列相似性 | Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRA2 sub-subfamily. |
| 细胞定位 | Cell junction > synapse > postsynaptic cell membrane. Cell membrane. |

图片



Western blot - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

All lanes : Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359) at 1/1000 dilution

Lane 1 : Mouse cerebellum tissue lysate 80 µg

Lane 2 : Mouse brain tissue lysate 80 µg

Lane 3 : Mouse lung tissue lysate 80 µg

Lane 4 : Mouse liver tissue lysate 80 µg

Lane 5 : Rat cerebellum tissue lysate 80 µg

Lane 6 : Rat brain tissue lysate 80 µg

Lane 7 : Rat lung tissue lysate 80 µg

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 51 kDa

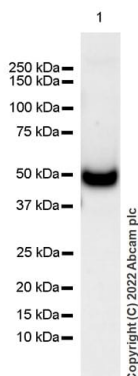
Observed band size: 51 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Low expression: liver, lung (PMID:29467616)

Samples are non-boiled as boiling may cause protein aggregates.

Exposure time: 48 seconds



Western blot - Anti-GABA A Receptor alpha
2/GABRA2 antibody [EPR26485-185] (ab307359)

Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359) at 1/1000 dilution + human hippocampus tissue lysate 40 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

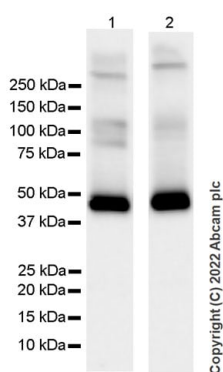
Predicted band size: 51 kDa

Observed band size: 51 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Samples are non-boiled as boiling may cause protein aggregates.

Exposure time: 48 seconds



Western blot - Anti-GABA A Receptor alpha
2/GABRA2 antibody [EPR26485-185] (ab307359)

All lanes : Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359) at 1/1000 dilution

Lane 1 : Mouse hippocampus tissue lysate 20 µg

Lane 2 : Rat hippocampus tissue lysate 20 µg

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

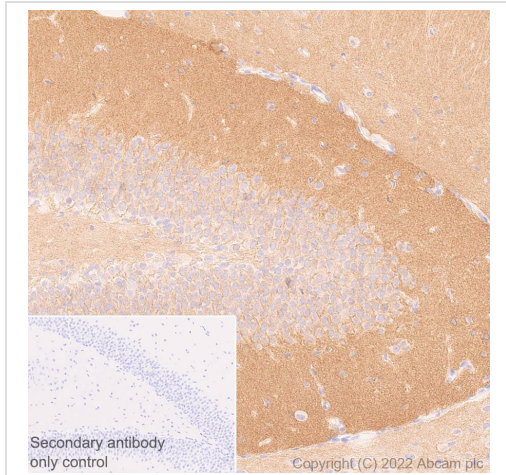
Predicted band size: 51 kDa

Observed band size: 51 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Samples are non-boiled as boiling may cause protein aggregates.

Exposure time: 5.5 seconds

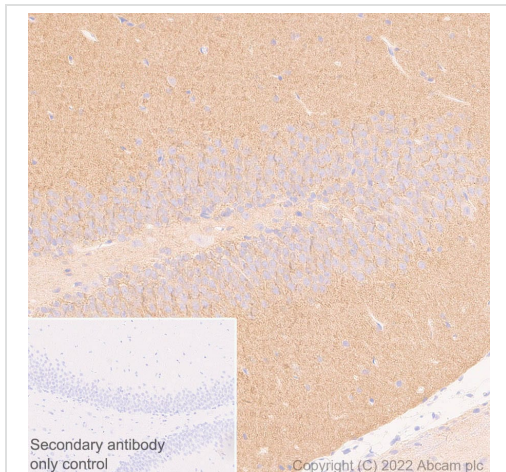


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/2000 dilution (0.241 µg/ml) followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on mouse hippocampus (PMID: 23337532). The section was incubated with ab307359 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

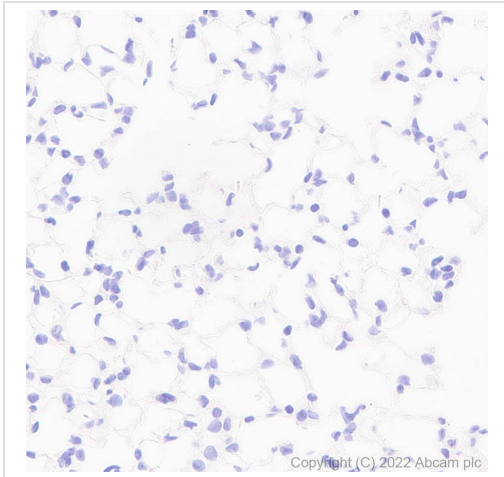


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

Immunohistochemical analysis of paraffin-embedded rat hippocampus tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/2000 dilution (0.241 µg/ml) followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on rat hippocampus (PMID: 23337532). The section was incubated with ab307359 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

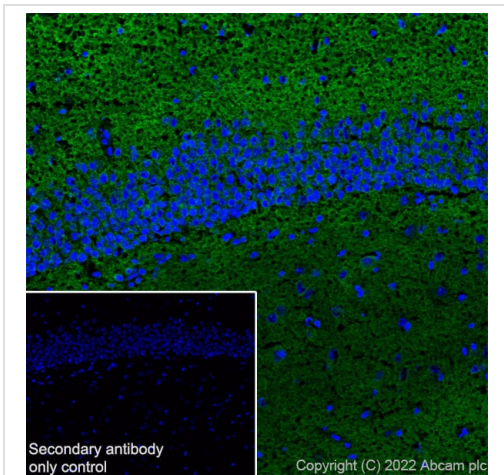
Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/2000 dilution (0.241 µg/ml) followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on mouse lung.

The section was incubated with ab307359 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

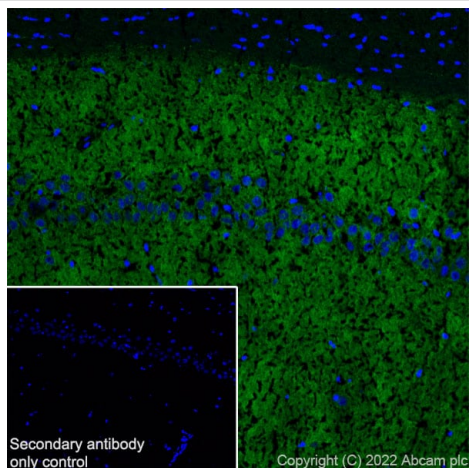
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse hippocampus (fresh) tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL) (Green).

Confocal image showing positive staining on mouse hippocampus.

The section was incubated with ab307359 for 60 mins at room temperature. The section was then mounted using Fluoromount®.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue).

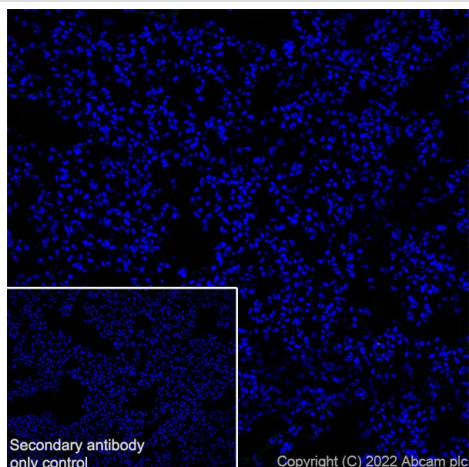
Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL).



Immunohistochemistry (Frozen sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat hippocampus (fresh) tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing positive staining on rat hippocampus. The section was incubated with ab307359 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL).

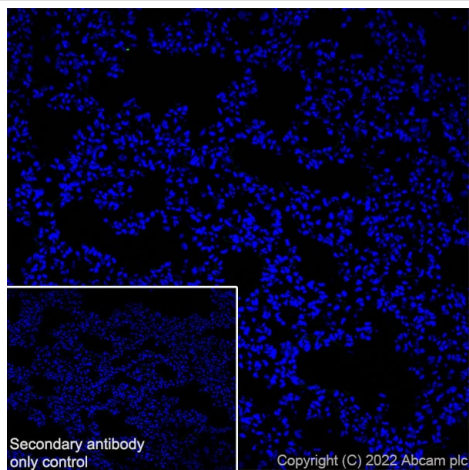


Immunohistochemistry (Frozen sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse lung (fresh) tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL) (Green). **Low expression:** confocal image showing no staining on mouse lung (PMID: 29467616).

The section was incubated with ab307359 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL).



Immunohistochemistry (Frozen sections) - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

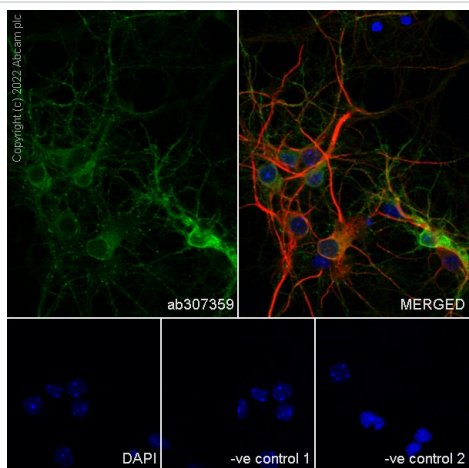
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat lung (fresh) tissue labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL) (Green).

Low expression: confocal image showing no staining on rat lung (PMID: 29467616).

The section was incubated with ab307359 for 60 mins at room temperature. The section was then mounted using Fluoromount®.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL).



Immunocytochemistry/ Immunofluorescence - Anti-GABA A Receptor alpha 2/GABRA2 antibody [EPR26485-185] (ab307359)

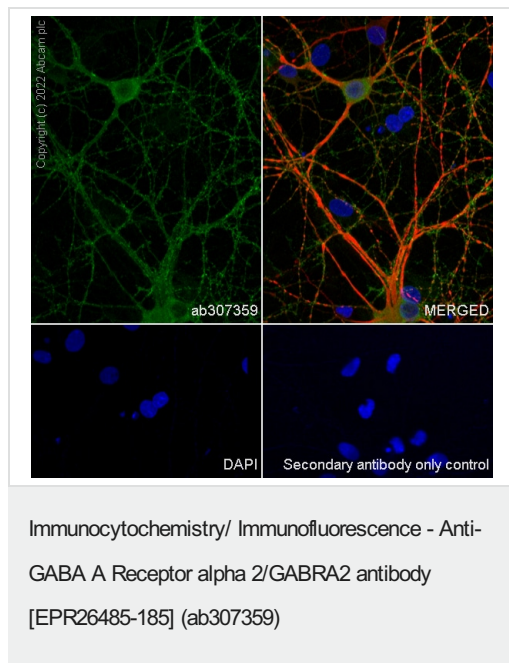
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neurons labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml), followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml) (Green).

Confocal image showing cytoplasmic staining in mouse primary neurons.

Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). **ab11267** Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (4 µg/ml), followed by **ab150120** Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution (2 µg/ml) (Red). Nuclear counterstain was DAPI (Blue).

-ve control 1: AB307359 at a 1/500 dilution followed by **ab150120** at a 1/1000 dilution.

-ve control 2: **ab11267** at a 1/500 dilution followed by **ab150081** at a 1/1000 dilution.



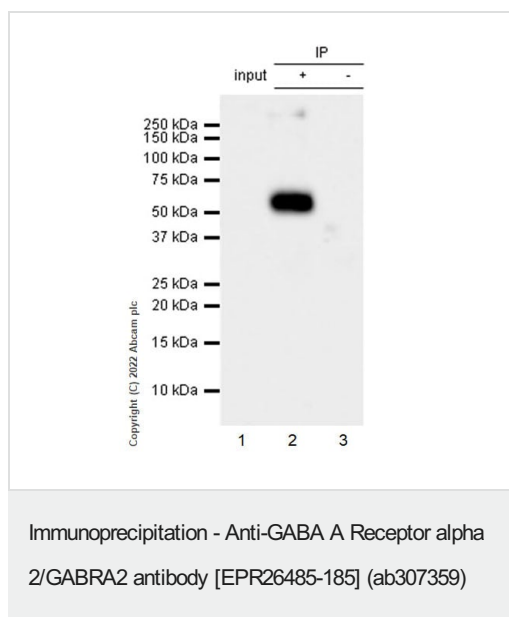
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized rat hippocampal neurons labeling GABA A Receptor alpha 2/GABRA2 with ab307359 at 1/100 dilution (4.81 µg/ml), followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml) (Green).

Confocal image showing cytoplasmic staining in rat hippocampal neurons.

Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). **ab11267** Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (4 µg/ml), followed by **ab150120** Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution (2 µg/ml) (Red). Nuclear counterstain was DAPI (Blue).

-ve control 1: AB307359 at a 1/500 dilution followed by **ab150120** at a 1/1000 dilution.

-ve control 2: **ab11267** at a 1/500 dilution followed by **ab150081** at a 1/1000 dilution.



GABA A Receptor alpha 2/GABRA2 was immunoprecipitated from 0.35 mg mouse cerebellum tissue lysate 10 µg with ab307359 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307359 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: Mouse cerebellum tissue lysate 10 µg

Lane 2: ab307359 IP in mouse cerebellum tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab307359 in mouse cerebellum tissue lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 24 seconds.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-GABA A Receptor alpha 2/GABRA2 antibody
[EPR26485-185] (ab307359)

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

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