

Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] ab206293

重组 RabMAb

★★★★★ [4 Abreviews](#) [17 References](#) [5 图像](#)

概述

产品名称	Anti-Ionotropic Glutamate receptor 2抗体[EPR18115]
描述	兔单克隆抗体[EPR18115] to Ionotropic Glutamate receptor 2
宿主	Rabbit
经测试应用	适用于: IP, IHC-P, WB
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, rat and Human brain lysates; Human fetal brain lysate. IHC-P: Human solitary fibrous tumor tissue. IP: C6 whole cell lysates.
常规说明	<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> <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.</p>

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18115

同种型

IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab206293 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
IP		1/40.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC is recommended for human only.
WB	★★★★★ (3)	1/2000. Detects a band of approximately 99 kDa (predicted molecular weight: 99 kDa).

靶标

功能

Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

序列相似性

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA2 subfamily.

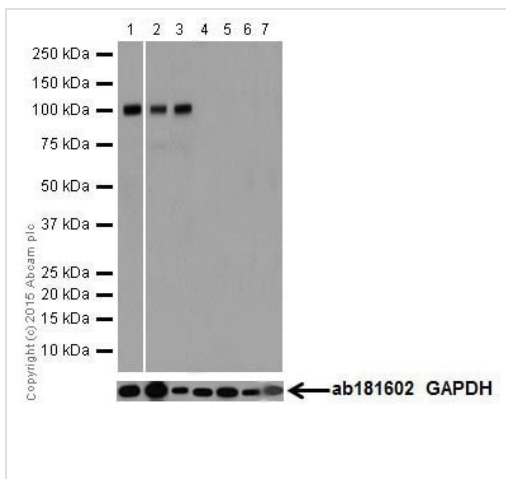
翻译后修饰

Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-610 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-836 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis.

细胞定位

Cell membrane. Endoplasmic reticulum membrane. Cell junction > synapse > postsynaptic cell membrane. Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression.

图片



Western blot - Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293)

All lanes : Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293) at 1/5000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lane 3 : Human fetal brain tissue lysate

Lane 4 : Rat spleen tissue lysate

Lane 5 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 6 : Human fetal kidney tissue lysate

Lane 7 : HT1080 (Human fibrosarcoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

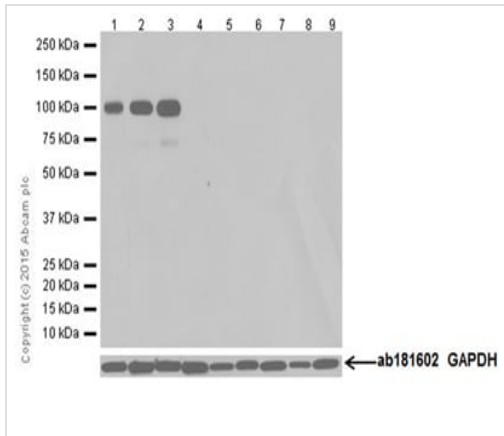
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 99 kDa

Observed band size: 99 kDa

Blocking/Dilution buffer: 5% NFD/MBST.

Exposure time: Lane 1: 1 second; Lane 2,3,4,5,6 and 7: 10 seconds.



Western blot - Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293)

All lanes : Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293) at 1/2000 dilution

Lane 1 : Human brain tissue lysate

Lane 2 : Mouse brain tissue lysate

Lane 3 : Rat brain tissue lysate

Lane 4 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 5 : Human fetal kidney tissue lysate

Lane 6 : HT1080 (Human fibrosarcoma cell line) whole cell lysate

Lane 7 : Mouse heart tissue lysate

Lane 8 : Rat spleen tissue lysate

Lane 9 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

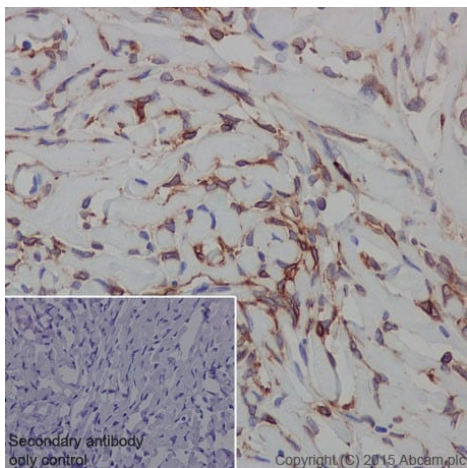
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 99 kDa

Observed band size: 99 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFD/MTBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293)

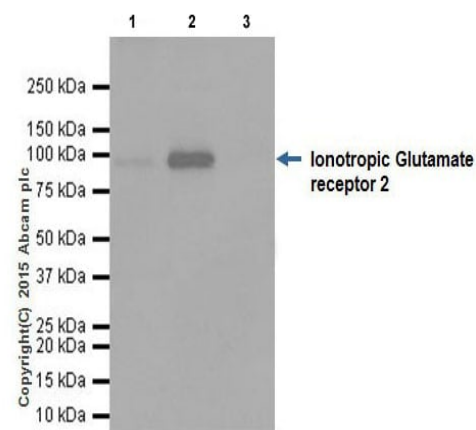
Immunohistochemical analysis of paraffin-embedded Human solitary fibrous tumor tissue labeling Ionotropic Glutamate receptor 2 with ab206293 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Membrane staining on Human solitary fibrous tumor is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Ionotropic Glutamate receptor 2 antibody [EPR18115] (ab206293)

Ionotropic Glutamate receptor 2 was immunoprecipitated from 1mg of C6 (Rat glial tumor cell line) whole cell lysate with ab206293 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab206293 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: C6 whole cell lysate 10µg (Input).

Lane 2: ab206293 IP in C6 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR18115] - Isotype Control ([ab172730](#)) instead of ab206293 in C6 whole cell lysate.

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

Exposure time: 10 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-Ionotropic Glutamate receptor 2 antibody

[EPR18115] (ab206293)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors