

Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] ab32436

重组 RabMAb

7 References **5 图像**

概述

产品名称	Anti-Glutamate Receptor 1 (AMPA subtype)抗体[E308]
描述	兔单克隆抗体[E308] to Glutamate Receptor 1 (AMPA subtype)
宿主	Rabbit
特异性	This antibody is specific for Glutamate Receptor 1 (AMPA subtype).
经测试应用	适用于: WB, IHC-P, IP 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human Glutamate Receptor 1 (AMPA subtype) aa 1-100 (N terminal). The exact sequence is proprietary.
阳性对照	WB: SH-SY5Y cell lysate. IHC: human brain tissue. IP: SH-SY5Y cell lysate
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 . Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	E308
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab32436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. Detects a band of approximately 106 kDa (predicted molecular weight: 101 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/50.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

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.

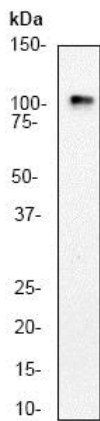
组织特异性 Widely expressed in brain.

序列相似性 Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.

翻译后修饰 Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-603 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-829 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 promotes cell surface expression.

图片

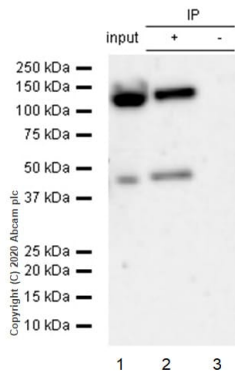


Western blot - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436)

Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436) at 1/1000 dilution + SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

Predicted band size: 101 kDa

Observed band size: 106 kDa



Immunoprecipitation - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436)

Purified ab32436 at 1/50 dilution (2µg) immunoprecipitating Glutamate Receptor 1 (AMPA subtype) in SH-SY5Y whole cell lysate.

Lane 1 (input): SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab32436 + SH-SY5Y whole cell lysate.

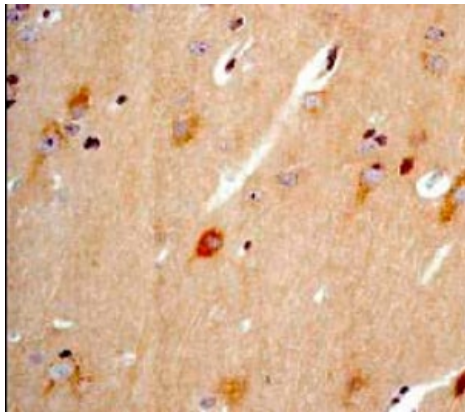
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32436 in SH-SY5Y whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFD/MTBST.

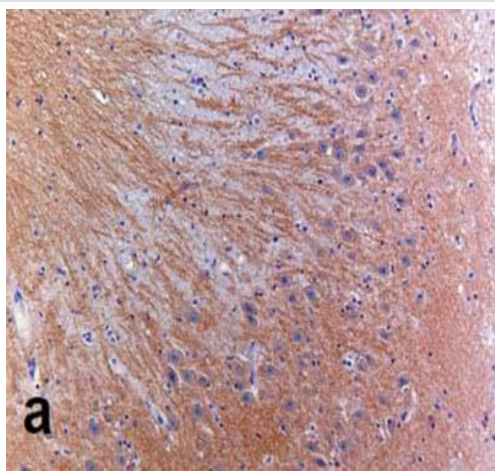
Diluting buffer and concentration: 5% NFD/MTBST.

Observed band size: 106 kDa



Ab32436, at a 1/50 dilution, staining Glutamate Receptor 1 (AMPA subtype) in paraffin embedded human brain tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436)



Immunohistochemical analysis of Human hippocampus tissue, staining Glutamate Receptor 1 (AMPA subtype) with ab32436.

Antigen retrieval was performed by heat mediation in a citrate buffer (pH 6). Samples were blocked with 10% normal goat serum for 30 minutes before incubating with primary antibody (1/20) for 2 hours. A biotinylated anti-rabbit IgG was used as the secondary antibody and staining was detected using DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436)

Image from van Vuurden DG et al., PLoS One. 2009 Jun 18;4(6):e5953. Fig 2.; doi:10.1371/journal.pone.0005953; June 18, 2009, PLoS ONE 4(6): e5953.

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-Glutamate Receptor 1 (AMPA subtype)
antibody [E308] (ab32436)

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