

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

リコンビナント RabMAb

7 References 画像数 5

製品の概要

製品名	Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308]
製品の詳細	Rabbit monoclonal [E308] to Glutamate Receptor 1 (AMPA subtype)
由来種	Rabbit
特異性	This antibody is specific for Glutamate Receptor 1 (AMPA subtype).
アプリケーション	適用あり: WB, IHC-P, IP 適用なし: Flow Cyt or ICC/IF
種交差性	交差種: Human
免疫原	Synthetic peptide within Human Glutamate Receptor 1 (AMPA subtype) aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: SH-SY5Y cell lysate. IHC: human brain tissue. IP: SH-SY5Y cell lysate
特記事項	<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> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	E308
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab32436の使用に適用されず
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

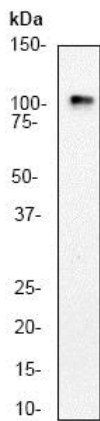
アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 106 kDa (predicted molecular weight: 101 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/50.

追加情報 Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能	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.
組織特異性	Widely expressed in brain.
配列類似性	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.
翻訳後修飾	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.
細胞内局在	Cell membrane. Endoplasmic reticulum membrane. Cell junction > synapse > postsynaptic cell membrane. Interaction with CACNG2 promotes cell surface expression.

画像

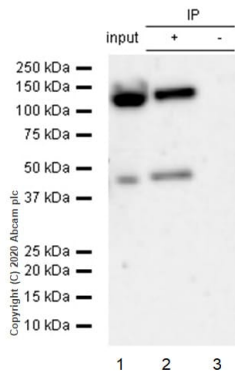


Western blot - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [E308] (ab32436)

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.

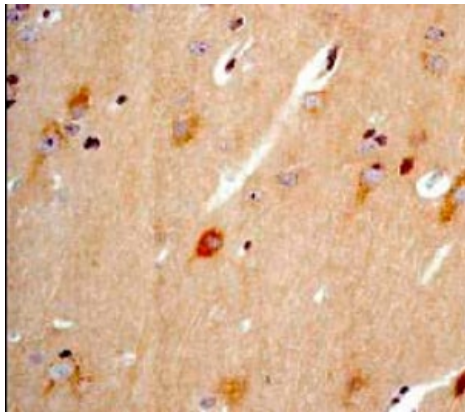
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32436 in SH-SY5Y whole cell lysate.

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

Blocking Buffer and concentration: 5% NFD/MTBST.

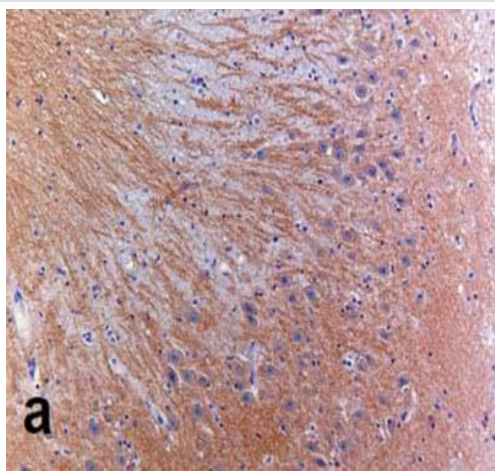
Diluting buffer and concentration: 5% NFD/MTBST.

Observed band size: 106 kDa



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

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)

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.

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.

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.co.jp/abpromise> or contact our technical team.

Terms and conditions

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