

# Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] ab109450

リコンビナント RabMAb

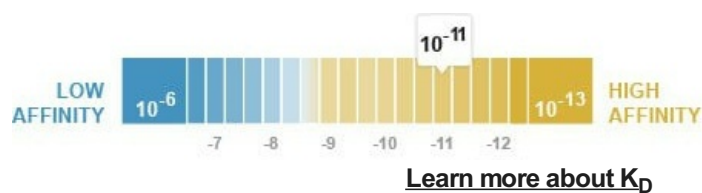
★★★★★ **2 Abreviews** **50 References** 画像数 5

### 製品の概要

製品名	Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479]
製品の詳細	Rabbit monoclonal [EPR5479] to Glutamate Receptor 1 (AMPA subtype)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <b>ab219618</b> )
ポジティブ・コントロール	WB: Human, Mouse and Rat brain lysates. IP: Mouse brain lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 1.94 x 10 <sup>-11</sup> M



バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 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	EPR5479
アイソタイプ	IgG

## アプリケーション

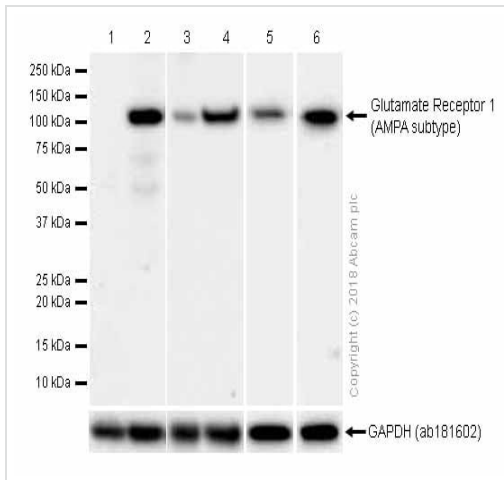
**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab109450の使用に適用されず  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/2000. Detects a band of approximately 106 kDa (predicted molecular weight: 102 kDa). Can be blocked with <b><u>Glutamate Receptor 1 (AMPA subtype) peptide (ab219618)</u></b> . <b>For unpurified use at 1/10000 - 1/50000.</b>  We recommend to use 1%SDS Hot lysis prepare method to get desired Western Blot results.
IP	★★★★★ (1)	1/10 - 1/100.

## ターゲット情報

機能	Iontropic 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 [EPR5479] (ab109450)

**All lanes** : Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] (ab109450) at 1/2000 dilution

**Lane 1** : Human brain lysates prepared in RIPA lysis method

**Lane 2** : Human brain lysates prepared in 1%SDS Hot lysis method

**Lane 3** : Rat brain lysates prepared in RIPA lysis method

**Lane 4** : Rat brain lysates prepared in 1%SDS Hot lysis method

**Lane 5** : Mouse brain lysates prepared in RIPA lysis method

**Lane 6** : Mouse brain lysates prepared in 1%SDS Hot lysis method

Lysates/proteins at 20 µg per lane.

### Secondary

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

**Predicted band size:** 102 kDa

**Observed band size:** 102 kDa

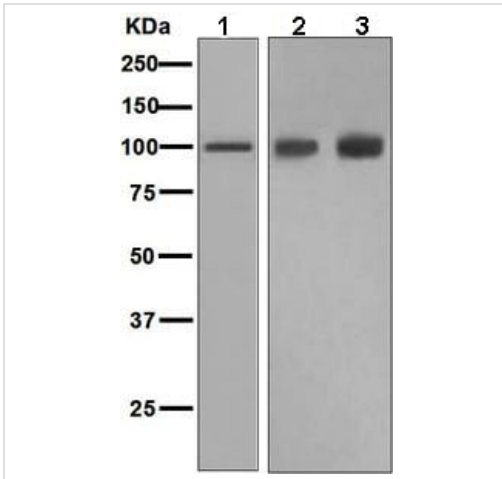
### Exposure times:

**Lanes 1 and 2:** 180 seconds

**Lanes 3 and 4:** 50 seconds

**Lanes 5 and 6:** 60 seconds

We recommend to use 1%SDS Hot lysis prepare method to get desired Western Blot results.



Western blot - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] (ab109450)

**All lanes :** Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] (ab109450) at 1/1000 dilution (unpurified)

**Lane 1 :** Human brain lysate

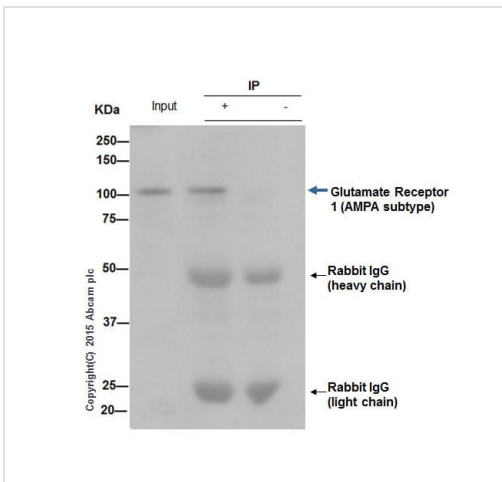
**Lane 2 :** Mouse brain lysate

**Lane 3 :** Rat brain lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 102 kDa

**Observed band size:** 106 kDa

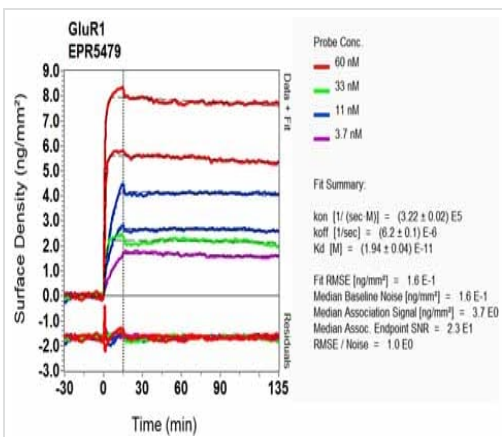


Immunoprecipitation - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] (ab109450)

ab109450 (purified) at 1/20 immunoprecipitating Glutamate Receptor 1 in Mouse Brain whole cell lysate. 10 µg of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent ([ab131366](#)) (1/1,500) was used for detection. A rabbit monoclonal IgG ([ab172730](#)) was used instead of [ab128913](#) as a negative control (Lane 3).

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.



OI-RD Scanning - Anti-Glutamate Receptor 1 (AMPA subtype) antibody [EPR5479] (ab109450)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

## 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 [EPR5479] (ab109450)

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

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