# abcam

## Product datasheet

## Anti-GluA4 antibody [EPR2512(2)] ab109431



重组 RabMAb

2 References 4 图像

#### 概述

产品名称 Anti-GluA4抗体[EPR2512(2)]

描述 兔单克隆抗体[EPR2512(2)] to GluA4

宿主 Rabbit

经测试应用 适用于: Flow Cyt (Intra), WB

不适用于: ICC/IF,IHC-P or IP

种属反应性 与反应: Mouse, Rat, Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 Rat brain, Mouse brain, Human cerebellum, and SH-SY5Y lysates; SH-SY5Y cells

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 -20°C. Stable for 12 months at -20°C.

存储溶液 pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

纯度 Tissue culture supernatant

克隆 单克隆

克隆编号 EPR2512(2)

同种型 ΙgG

## The Abpromise guarantee

## Abpromise™承诺保证使用ab109431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
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 101 kDa.

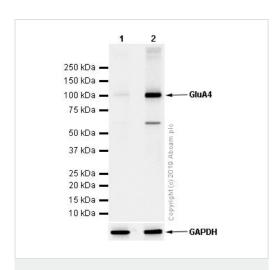
应用说明

Is unsuitable for ICC/IF,IHC-P or IP.

## 靶标

功能	lonotropic 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.
序列相似性	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA4 subfamily.
翻译后修饰	Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-611 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-837 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis.
细胞定位	Cell membrane. Cell junction > synapse > postsynaptic cell membrane.

#### 图片



Western blot - Anti-GluA4 antibody [EPR2512(2)] (ab109431)

**All lanes :** Anti-GluA4 antibody [EPR2512(2)] (ab109431) at 1/1000 dilution

Lane 1: Rat brain prepared in RIPA lysis method

Lane 2: Rat brain prepared in 1%SDS Hot lysis method

Lysates/proteins at 15 µg per lane.

#### **Secondary**

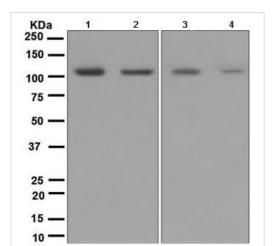
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000

dilution

**Predicted band size:** 101 kDa **Observed band size:** 101 kDa

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

Blocking/Diluting Buffer and concentration: 5% NFDM/TBST



Western blot - Anti-GluA4 antibody [EPR2512(2)] (ab109431)

**All lanes :** Anti-GluA4 antibody [EPR2512(2)] (ab109431) at 1/1000 dilution

Lane 1: Rat brain lysate

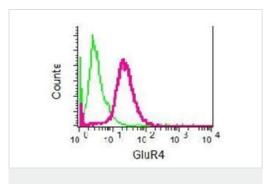
Lane 2: Mouse brain lysate

Lane 3: Human cerebellum lysate

Lane 4: SH-SY5Y lysate

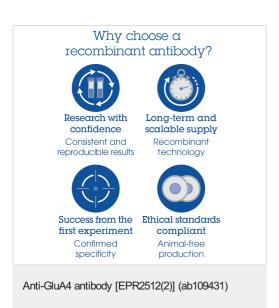
Lysates/proteins at 10 µg per lane.

Predicted band size: 101 kDa



Flow Cytometry (Intracellular) - Anti-GluA4 antibody [EPR2512(2)] (ab109431)

Intracellular flow cytometric analysis of permeabilized SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells using ab109431 at 1/10 dilution (red) or a rabbit lgG (negative) (green).



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

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