abcam

Product datasheet

Recombinant Human Glutamate Receptor 1 (AMPA subtype) protein ab112297

1 References 1 Image

Description

Product name Recombinant Human Glutamate Receptor 1 (AMPA subtype) protein

Biological activity useful for Antibody Production and Protein Array

Expression system Wheat germ

Accession P42261

Protein length Protein fragment

Animal free No.

Nature Recombinant

Species Human

Sequence VVDCESERLNAILGQIIKLEKNGIGYHYILANLGFMDIDLNKF

KESGANV

 ${\sf TGFQLVNYTDTIPAKIMQQWKNSDARDHTRVDWKRPKYTS}$

ALTYDGVKVM

Predicted molecular weight 37 kDa including tags

Amino acids 201 to 300

Tags GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of ab112297 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications ELISA

SDS-PAGE Western blot

Form Liquid

Additional notes useful for Antibody Production and Protein Array

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

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pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCI

Glutathione is reduced

General Info

Function 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.

Tissue specificity Widely expressed in brain.

Sequence similarities Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.

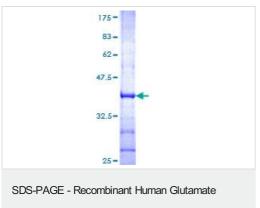
Post-translational Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-603 palmitoylation leads to Golgi **modifications** retention and decreased cell surface expression. In contrast, Cys-829 palmitoylation does not

affect cell surface expression but regulates stimulation-dependent endocytosis.

Cellular localization Cell membrane. Endoplasmic reticulum membrane. Cell junction > synapse > postsynaptic cell

membrane. Interaction with CACNG2 promotes cell surface expression.

Images



Receptor 1 (AMPA subtype) protein (ab112297)

ab112297 analysed on a 12.5% SDS-PAGE stained with Coomassie Blue.

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