

Datasheet for ABIN3042581

anti-Glutamate Receptor 3 antibody (Middle Region)



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2 Images

Overview

Quantity:	100 µg
Target:	Glutamate Receptor 3 (GRIA3)
Binding Specificity:	AA 394-412, Middle Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutamate Receptor 3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Glutamate receptor 3/GRIA3 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human GRIA3, identical to the related mouse and rat sequences.
Sequence:	RKAGYWNEYE RFVPFSDQQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Glutamate receptor 3/GRIA3 Antibody (ABIN3042581). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Glutamate Receptor 3 (GRIA3)

Alternative Name: GRIA3 ([GRIA3 Products](#))

Background: Synonyms: Glutamate receptor 3, GluR-3, AMPA-selective glutamate receptor 3, GluR-C, GluR-K3, Glutamate receptor ionotropic, AMPA 3, GluA3, GRIA3, GLUR3, GLURC,
Background: Glutamate receptor 3 is a protein that in humans is encoded by the GRIA3 gene. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. It is mapped to Xq25. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. In addition to that, GRIA3 has been shown to interact with GRIP1 and PICK1.
Sequence Similarities: Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA3 subfamily.

Molecular Weight: 101 kDa

UniProt: [P42263](#)

Pathways: [PI3K-Akt Signaling](#), [cAMP Metabolic Process](#), [Synaptic Membrane](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human
1. "Entrez Gene: GRIA3 glutamate receptor, ionotropic, AMPA 3" 2. Hirbec, Hélène, Perestenko Olga, Nishimune Atsushi, Meyer Guido, Nakanishi Shigetada, Henley Jeremy M, Dev Kumlesh K (May 2002). "The PDZ proteins PICK1, GRIP, and syntenin bind multiple glutamate receptor subtypes. Analysis of PDZ binding motifs". J. Biol. Chem. (United States) 277 (18): 15221-4. 3. McNamara JO, Eubanks JH, McPherson JD, Wasmuth JJ, Evans GA, Heinemann SF (Jul 1992). "Chromosomal localization of human glutamate receptor genes". J Neurosci 12 (7): 2555-62.

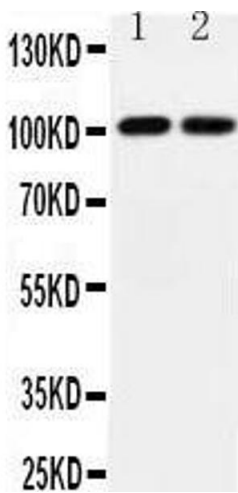
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Observed bind size: 101KD



Western Blotting

Image 2. Anti-GRIA3 antibody, All Western blottingAll lanes:
Anti-GRIA3 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 40ug Lane 2: Mouse Brain Tissue Lysate at 40ug Predicted bind size: 101KD Observed bind size: 101KD