

Datasheet for ABIN7178663
anti-Glutamate Receptor 3 antibody[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	Glutamate Receptor 3 (GRIA3)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutamate Receptor 3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant protein of Human GRIA3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Affinity purification

Target Details

Target:	Glutamate Receptor 3 (GRIA3)
Alternative Name:	GRIA3 (GRIA3 Products)
Background:	Background: AMPA- (α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid), kainite- and NMDA- (N-methyl-D-aspartate) receptors are the three main families of ionotropic glutamate-gated ion channels. AMPA receptors (AMPA receptors) are comprised of four subunits (GluR 1-4) that assemble as homo- or hetero-tetramers and mediate the majority of fast excitatory

Target Details

transmissions in the CNS. AMPARs are implicated in synapse formation, stabilization and plasticity. Post-transcriptional modifications (alternative splicing and nuclear RNA editing) and post-translational modifications (glycosylation, phosphorylation) result in a very large number of permutations, fine-tuning the kinetic properties of AMPARs. GluR 3 knockout mice exhibited normal basal synaptic transmission and long-term depression (LTD) but enhanced long-term potentiation (LTP). In contrast, GluR 2/3 double knockout mice are impaired in basal synaptic transmission. Aberrant GluR 3 expression or activity is implicated in a number of diseases, including autoimmune epilepsy, X-linked mental retardation, Retts syndrome, amyotrophic lateral sclerosis and Alzheimer disease.

Aliases: AMPA 3 antibody, AMPA selective glutamate receptor 3 antibody, AMPA-selective glutamate receptor 3 antibody, dJ1171F9.1 antibody, GluA3 antibody, GLUK3 antibody, GluR 3 antibody, GLUR C antibody, GLUR K3 antibody, GluR-3 antibody, GluR-C antibody, GluR-K3 antibody, GLUR3 antibody, GLURC antibody, Glutamate ionotropic receptor AMPA type subunit 3 antibody, Glutamate receptor 3 antibody, Glutamate receptor C antibody, Glutamate receptor ionotropic AMPA 3 antibody, Glutamate receptor ionotropic antibody, Glutamate receptor subunit 3 antibody, Glutamate receptor, ionotropic, AMPA 3 antibody, GRIA 3 antibody, Gria3 antibody, GRIA3_HUMAN antibody, Ionotropic Glutamate Receptor antibody, MRX94 antibody

UniProt: [P42263](#)

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

Application Details

Application Notes: WB:1:500-1:2000, IHC:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Store at -20 °C or -80 °C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

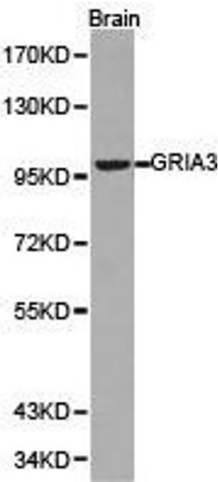
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Handling

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of brain cell lysate using GRIA3 antibody.