

Anti-Glutamate receptor 3/GRIA3 Antibody Picoband™

Catalog Number: PB9206

About GRIA3

Glutamate receptor 3 is a protein that in humans is encoded by the GRIA3 gene. This gene belongs to a family of alphaamino-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.

Overview

Product Name	Anti-Glutamate receptor 3/GRIA3 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Glutamate receptor 3/GRIA3 Antibody Picoband™ catalog # PB9206. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P42263

Technical Details

Immunogen	E.coli-derived human GRIA3 recombinant protein (Position: G29-M360). Human GRIA3 shares 99% amino acid (aa) sequence identity with both mouse and rat GRIA3.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.



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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human



Anti-Glutamate receptor 3/GRIA3 Antibody Picoband™ (PB9206) Images

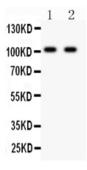


Figure 1. Western blot analysis of GRIA3 using anti-GRIA3 antibody (PB9206).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GRIA3 antigen affinity purified polyclonal antibody (Catalog # PB9206) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GRIA3 at approximately 101 kDa. The expected band size for GRIA3 is at 101 kDa.

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