Product datasheet Anti-GLUR1/GRIA1 (Phospho-S845) Antibody (Clone#GFH-7) Catalog Number: BM4637



BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-GLUR1/GRIA1 (Phospho-S845) Antibody (Clone#GFH-7)
Gene Name	GRIA1
Source	Rabbit
Clonality	Monoclonal
lsotype	lgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human GluR1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	102 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

GLUR1, Glutamate receptor 1, is a protein that in humans is encoded by the GLUR1 gene. GLUR1 mRNA is widely expressed in human brain. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The GRIA1 belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Each of the members (GRIA1-4) include flip and flop isoforms generated by alternative RNA splicing. The receptor subunits encoded by each isoform vary in their signal transduction properties. The isoform presented here is the flop isoform. In situ hybridization experiments showed that human GRIA1 mRNA is present in granule and pyramidal cells in the hippocampal formation.

Selected Validation Data

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Western blot analysis of anti-GLUR1/GRIA1 (Phospho-S845) antibody (BM4637). 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 membrane. Then the membrane was incubated with rabbit anti-GLUR1/GRIA1 (Phospho-S845) antigen affinity purified monoclonal antibody (BM4637) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GLUR1/GRIA1 (Phospho-S845) at approximately 102 kDa. The expected band size for GLUR1/GRIA1 (Phospho-S845) is at 102 kDa.