Datasheet for ABIN2485607

anti-Glutamate Receptor 1 antibody (AA 1-389) (PerCP)

3 Images

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Overview

Quantity:	100 µg
Target:	Glutamate Receptor 1 (GLUR1)
Binding Specificity:	AA 1-389
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Glutamate Receptor 1 antibody is conjugated to PerCP
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 1-389 (extracellular N-terminus) of rat GluA1/GluR1
Clone:	S355-1
Isotype:	IgG1
Specificity:	Detects ~100 kDa. Does not cross-react with GluR2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	Glutamate Receptor 1 (GLUR1)

Target Details

Alternative Name:	GluR1 (GLUR1 Products)
Background:	Glutamic acid is the major excitatory neurotransmitter in the mammalian central nervous system. Glutamate receptors are classified on the basis of their activation by different agonists (1-3). GluR1, human glutamate receptor type 1, is an integral membrane protein that is widely expressed in the human brain. The postsynaptic actions of glutamic acid are mediated by a variety of receptors that are named according to their selective agonists. GluR1 is known to bind a kainate subtype of agonist. It has been found that malfunctioning of the glutamatergic system may result in certain brain disorders and neurodegeneration (3).
Gene ID:	50592
NCBI Accession:	NP_113796
UniProt:	P19490
Pathways:	PI3K-Akt Signaling

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2485607 was sufficient for detection of GluA1/GluR1 in 20 µg of mouse brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

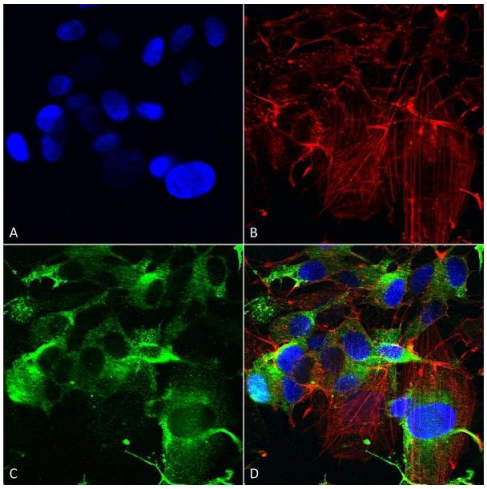
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
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:	4 °C

Handling

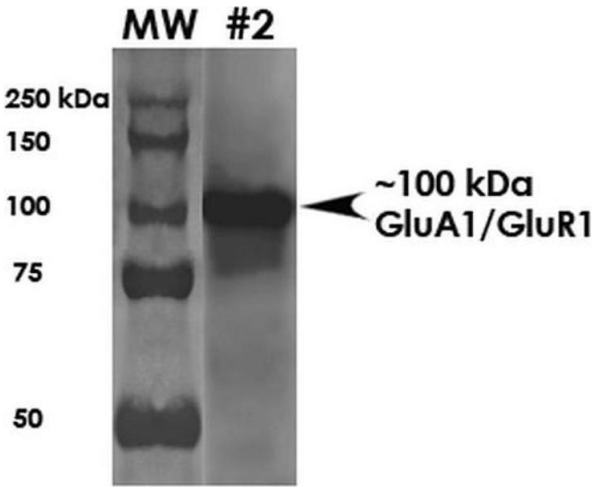
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



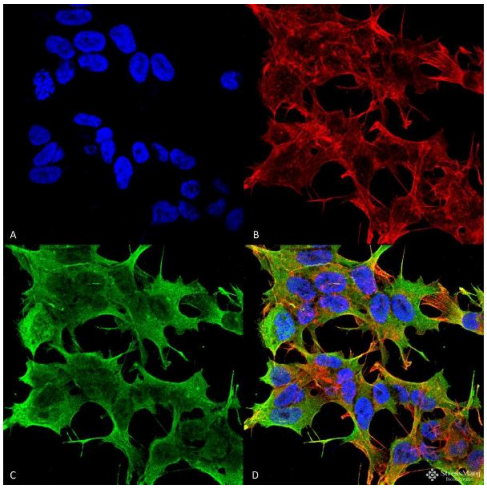
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluA1/GluR1 Monoclonal Antibody, Clone S355-1 (ABIN2485607). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GluA1/GluR1 Monoclonal Antibody (ABIN2485607) at 1:200 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GluA1/GluR1 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of ~100 kDa GluA1-GluR1 protein using Mouse Anti-GluA1-GluR1 Monoclonal Antibody, Clone S355-1 . Load: 10 µg. Block: 5% milk + TBST. Primary Antibody: Mouse Anti-GluA1-GluR1 Monoclonal Antibody at 1:2000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~100 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluA1/GluR1 Glutamate Receptor Monoclonal Antibody, Clone S355-1 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GluA1/GluR1 Glutamate Receptor Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Cell Junction. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GluA1/GluR1 Glutamate Receptor Antibody (D) Composite.