

# Product Datasheet

## GluR1 Antibody (S355-1) - BSA Free NBP2-22399

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 4

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**NBP2-22399**

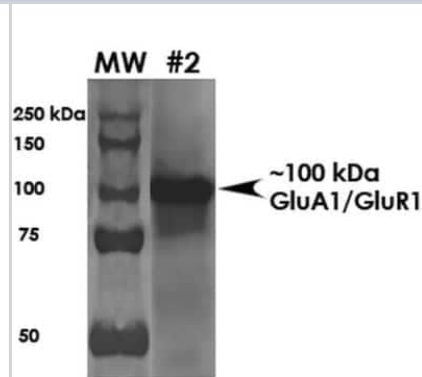
GluR1 Antibody (S355-1) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	S355-1
Preservative	0.1% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Host	Mouse
Gene ID	2890
Gene Symbol	GRIA1
Species	Human, Mouse, Rat
Specificity/Sensitivity	Detects approx. 100kDa. Does not cross-react with GluR2.
Immunogen	Fusion protein amino acids 1-389 (extracellular N-terminus) of rat GluA1/GluR1
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100
Application Notes	1 ug/ml of GluA1/GluR1 Glutamate Receptor Antibody was sufficient for detection of GluA1/GluR1 in 20 ug of mouse brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary Antibody.

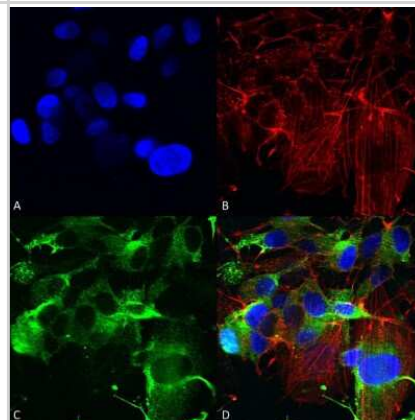


## Images

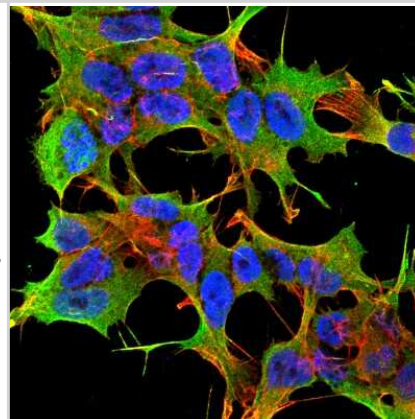
**Western Blot: GluR1 Antibody (S355-1) [NBP2-22399]** - Western Blot analysis of Rat Brain Membrane showing detection of ~100 kDa GluR1 protein using Mouse Anti-GluR1 Monoclonal Antibody, Clone S355-1 (NBP2-22399). Load: 10 ug. Block: 5% milk + TBST. Primary Antibody: Mouse Anti-GluR1 Monoclonal Antibody (NBP2-22399) 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.



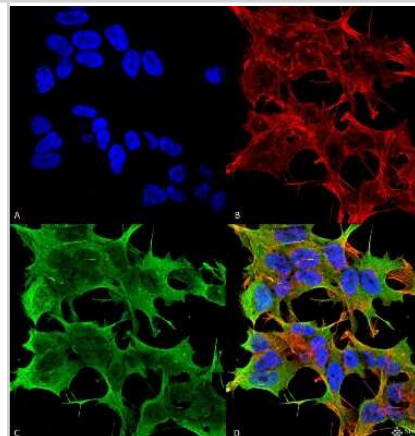
**Immunocytochemistry/Immunofluorescence: GluR1 Antibody (S355-1) [NBP2-22399]** - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluA1/GluR1 Monoclonal Antibody, Clone S355-1 (NBP2-22399). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GluA1/GluR1 Monoclonal Antibody (NBP2-22399) at 1:200 for overnight at 4C 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, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GluA1/GluR1 Antibody (D) Composite.



**Immunocytochemistry/Immunofluorescence: GluR1 Antibody (S355-1) [NBP2-22399]** - 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.



**Immunocytochemistry/Immunofluorescence: GluR1 Antibody (S355-1) [NBP2-22399]** - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluA1/GluR1 Glutamate Receptor Monoclonal Antibody, Clone S355-1 (NBP2-22399). 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 (NBP2-22399) 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.



## Publications

Kruzich E, Phadke RA, Brack A et al. A pipeline for STED super-resolution imaging and Imaris analysis of nanoscale synapse organization in mouse cortical brain slices STAR protocols 2023-11-08 [PMID: 37948187] (ICC/IF, Human)

Details:

Dilution 1:250

Phadke R, Kruzich E, Fournier L et al. C4 induces pathological synaptic loss by impairing AMPAR trafficking bioRxiv 2023-09-11 (IHC-P, Mouse)

Details:

1:250 IHC-P dilution

Zhang N, Zhang Z, He R et al. GLAST-CreER(T2) mediated deletion of GDNF increases brain damage and exacerbates long-term stroke outcomes after focal ischemic stroke in mouse model Glia 2020-06-04 [PMID: 32497340]

Guo R, Zhao Y, Zhang M et al. Down-regulation of Stargazin inhibits the enhanced surface delivery of  $\alpha$ -amino-3-hydroxy-5-methyl-4-isoxazole propionate receptor GluR1 subunit in rat dorsal horn and ameliorates postoperative pain. Anesthesiology 2014-09-12 [PMID: 25093662] (IF/IHC, Rat)





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### **Products Related to NBP2-22399**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00002890-Q01-10ug	Recombinant Human GluR1 GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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