

Glutamate receptor 2 Polyclonal antibody

Catalog Number: 11994-1-AP

31 Publications

Basic Information

Catalog Number: 11994-1-AP	GenBank Accession Number: BC010574	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 µg/ml by Nanodrop and 420 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2891	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: glutamate receptor, ionotropic, AMPA 2	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 883 aa, 99 kDa	
Immunogen Catalog Number: AG2662	Observed MW: 94-105 kDa	

Applications

Tested Applications: FC (Intra), IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: CoIP, IF, IHC, IP, WB	WB : mouse brain tissue,
Species Specificity: human, mouse, rat	IP : mouse brain tissue,
Cited Species: human, rat, mouse	IHC : mouse brain tissue,
	IF : mouse eye tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. GRIA2 (glutamate receptor 2, GluR-2) belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels that mediate the fast component of excitatory postsynaptic currents in neurons of the central nervous system. These channels are assembled from 4 related subunits, GRIA1-4. The presence of GRIA2 in the heteromeric AMPA receptors impermeabilizes it to calcium, preventing possible calcium-mediated toxicity.

Notable Publications

Author	Pubmed ID	Journal	Application
Pengcheng Ma	36179027	Sci Adv	WB, CoIP
YuanYuan Hou	34710402	Exp Neurol	WB
Joanna Gruszczynska-Biegala	27826230	Front Cell Neurosci	WB

Storage

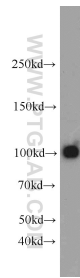
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

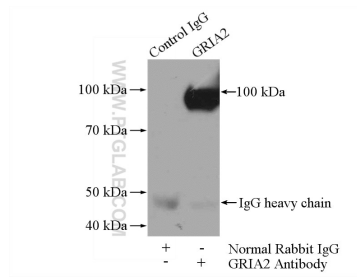
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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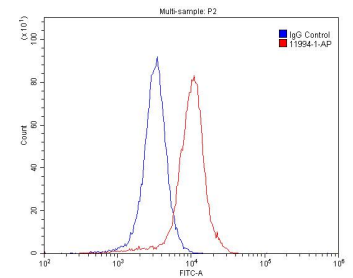
Selected Validation Data



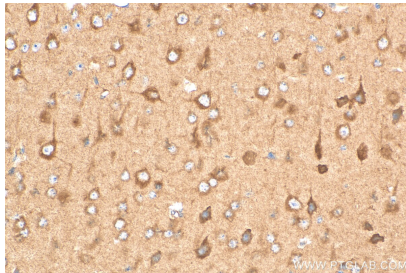
mouse brain tissue were subjected to SDS PAGE followed by western blot with 11994-1-AP (Glutamate receptor 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



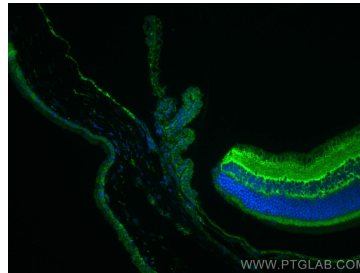
IP Result of anti-Glutamate receptor 2 (IP:11994-1-AP, 4ug; Detection:11994-1-AP 1:500) with mouse brain tissue lysate 4000ug.



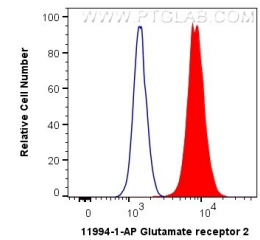
1X10⁶ SH-SY5Y cells were stained with 0.2ug Glutamate receptor 2 antibody (11994-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11994-1-AP (Glutamate receptor 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using Glutamate receptor 2 antibody (11994-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human Glutamate receptor 2 (11994-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).