For Research Use Only

Glutamate receptor 2 Polyclonal antibody

Catalog Number:11994-1-AP 39 Publications

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Basic Information

Catalog Number:
11994-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2662

GenBank Accession Number:
BC010574

GeneID (NCBI):
2891

UNIPROT ID:
P42262

Full Name:
glutamate receptor, ionotropic, AMPA 2

Calculated MW:
883 aa, 99 kDa

Observed MW:
94-105 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF-P : mouse eye tissue,

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

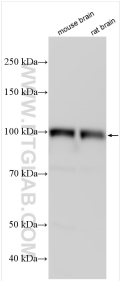
Author	Pubmed ID	Journal	Application
Pengcheng Ma	36179027	Sci Adv	WB,CoIP
YuanYuan Hou	34710402	Exp Neurol	WB
Joanna Gruszczynska-Biegala	27826230	Front Cell Neurosci	WB

Storage

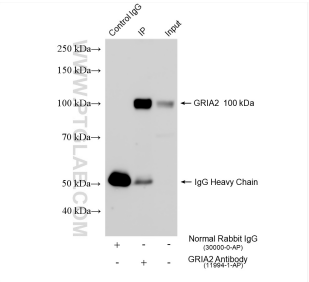
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

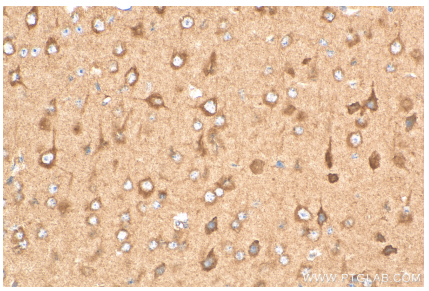
Selected Validation Data



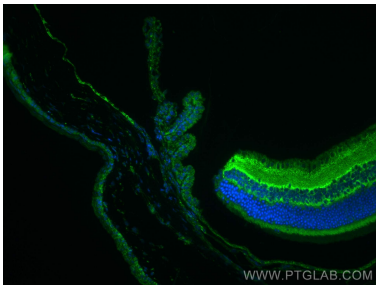
Various lysates were subjected to SDS PAGE followed by western blot with 11994-1-AP (Glutamate receptor 2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP result of anti-Glutamate receptor 2 (IP:11994-1-AP, 4ug; Detection:11994-1-AP 1:2000) with mouse brain tissue lysate 2100 ug.



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).