## GluR2 Rabbit mAb

Catalog No: #49694

Package Size: #49694-1 50ul #49694-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

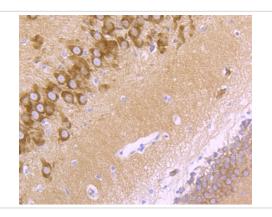
## Description

Product Name	GluR2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU20-43
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC;IP
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	AMPA 2 antibody AMPA selective glutamate receptor 2 antibody AMPA-selective glutamate receptor 2 antibody AMPA2 antibody GluA2 antibody GLUR 2 antibody GLUR B antibody GluR K2 antibody GluR-2 antibody GluR-B antibody GluR-K2 antibody GLUR2 antibody GLURB antibody Glutamate receptor 2 antibody Glutamate receptor ionotropic AMPA 2 antibody Glutamate receptor ionotropic antibody Gria2 antibody GRIA2_HUMAN antibody HBGR2 antibody
Accession No.	Swiss-Prot#:P42262
Calculated MW	110 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

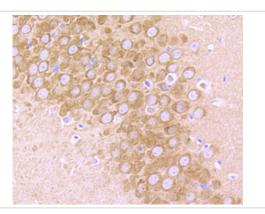
# Application Details

WB: 1:500-1:1000IHC: 1:50-1:200ICC/IF: 1:50-1:200IP: 1:50-1:100

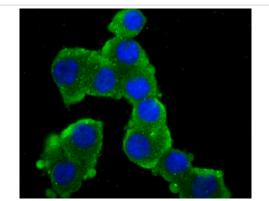
## **Images**



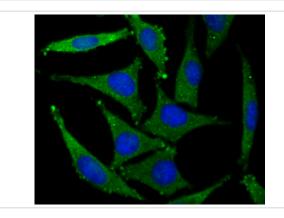
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-GluR2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GluR2 antibody. Counter stained with hematoxylin.



ICC staining GluR2 in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GluR2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

#### Background

Lonotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

#### References

1. Lam RS et al. Functional Maturation of Human Stem Cell-Derived Neurons in Long-Term Cultures. PLoS One 12:e0169506 (2017). 2. Li WG et al. ASIC1a regulates insular long-term depression and is required for the extinction of conditioned taste aversion. Nat Commun 7:13770 (2016).

#### **Published Papers**

el at., Butyric acid precursor tributyrin modulates hippocampal synaptic plasticity and prevents spatial memory deficits: role of PPARγ and AMPK. In Int J Neuropsychopharmacol on 2022 Jun 21 by Ana BelΓ©n Sanz-Martos, JesΓls FernΓ'ndez-Felipe, et al..PMID:35152284, , (2022)

PMID:35152284

Note: This product is for in vitro research use only and is not intended for use in humans or animals.
The product is for in vitro recognish as only and is not interface for account name of animals.