Datasheet for ABIN7267414

anti-GRIA2 antibody

6 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	GRIA2
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This GRIA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	GluR2/GRIA2 Rabbit mAb
Immunogen:	A synthesized peptide derived from human GluR2/GRIA2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	GRIA2
Alternative Name:	GRIA2 (GRIA2 Products)
Background:	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the

Target Details

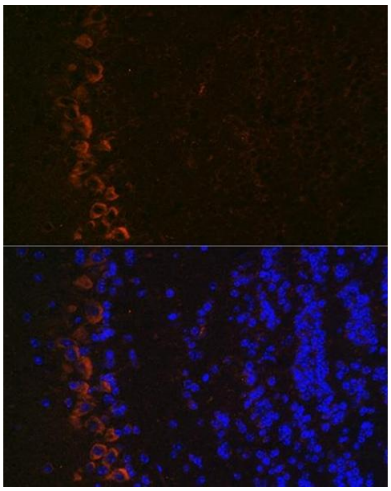
	mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene. [provided by RefSeq, Jul 2008],GLUR2, GLURB, GluA2, GluR-K2, HBGR2,Neurodegenerative Diseases,Neurodegenerative Diseases_Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimers Disease,Neurodegenerative Diseases_Dopamine Signaling in Parkinsons Disease,Neuroscience,GRIA2
Molecular Weight:	98kDa
Gene ID:	2891
UniProt:	P42262
Pathways:	PI3K-Akt Signaling

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

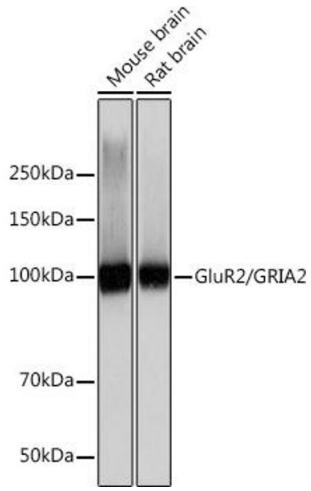
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



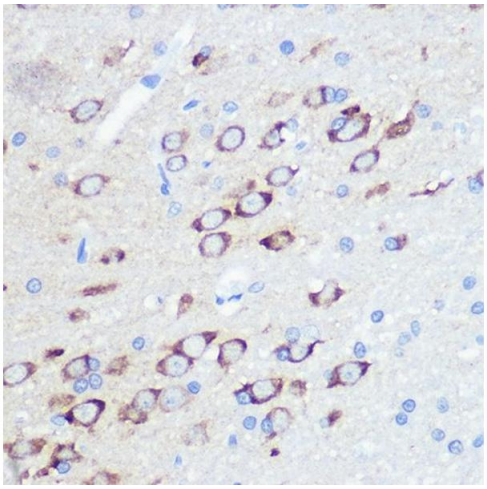
Immunofluorescence

Image 1. Immunofluorescence analysis of mouse brain using GluR2/GRI Rabbit mAb (ABIN7267414) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using GluR2/GRI Rabbit mAb (ABIN7267414) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded rat brain using GluR2/GRI Rabbit mAb (ABIN7267414) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Please check the product details page for more images. Overall 6 images are available for ABIN7267414.