Datasheet for ABIN656865

anti-GRIA4 antibody (AA 296-325)

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Overview

Quantity:	400 µL
Target:	GRIA4
Binding Specificity:	AA 296-325
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIA4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This GRIA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-325 amino acids from the Central region of human GRIA4.
Clone:	RB30232
Isotype:	Ig Fraction
Predicted Reactivity:	Pr, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	GRIA4
Alternative Name:	GRIA4 (GRIA4 Products)

Target Details

Background:	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA->GGA, R->G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq].
Molecular Weight:	100871
Gene ID:	2893
NCBI Accession:	NP_000820, NP_001070711, NP_001070712, NP_001106283
UniProt:	P48058
Pathways:	PI3K-Akt Signaling

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

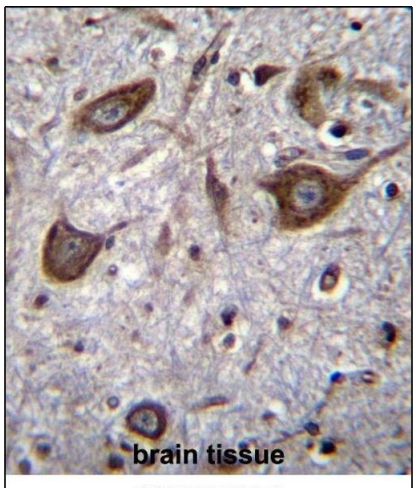
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	GRIA4 Antibody (Center) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.
Expiry Date:	6 months

Publications

Product cited in:

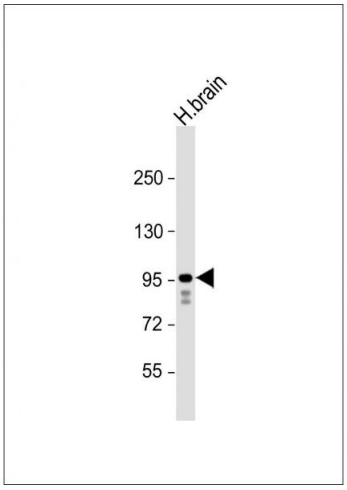
Muntané, Horvath, Hof, Ely, Hopkins, Raghanti, Lewandowski, Wray, Sherwood: "Analysis of synaptic gene expression in the neocortex of primates reveals evolutionary changes in glutamatergic neurotransmission." in: **Cerebral cortex (New York, N.Y. : 1991)**, Vol. 25, Issue 6, pp. 1596-607, (2015) (PubMed).

Images



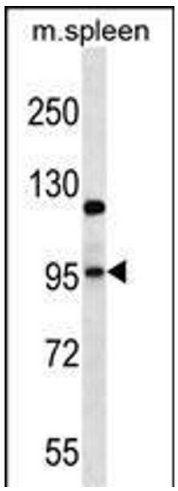
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. GRIA4 Antibody (Center) (ABIN656865 and ABIN2846069) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GRIA4 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. Anti-GRIA4 Antibody (Center) at 1:1000 dilution + human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 101 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. GRIA4 Antibody (Center) (ABIN656865 and ABIN2846069) western blot analysis in mouse spleen tissue lysates (35 µg/lane).This demonstrates the GRIA4 antibody detected the GRIA4 protein (arrow).