Datasheet for ABIN499930

anti-GRIK4 antibody (N-Term)

2 Images

Go to Product page

Overview

Quantity:	0.1 mg
Target:	GRIK4
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Grik4 antibody was raised against a 14 amino acid peptide near the amino terminus of the human Grik4.
Isotype:	IgG
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	GRIK4
Alternative Name:	Glutamate Receptor KA1 / GRIK4 (GRIK4 Products)
Background:	Grik4 codes for the KA1 subunit of kainate-type ionotropic glutamate receptors which are critical regulators of network activity that act by modifying neuronal excitability, directly and

Target Details

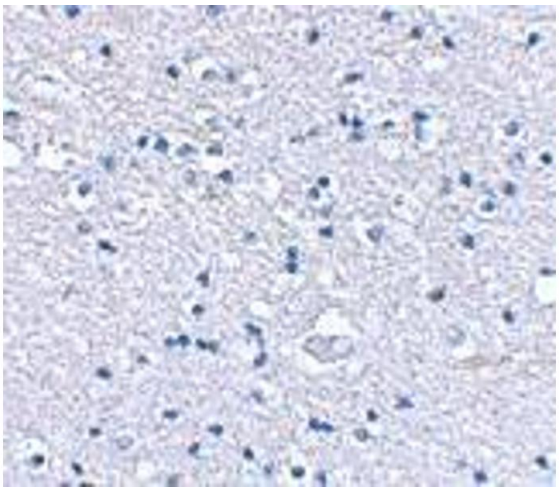
	indirectly, through GABAergic interneurons. Five subunits can assemble to form kainate receptors (KARs): GluR5 (coded by Grik1), GluR6 (coded by Grik2), and GluR7 (coded by Grik3) are the low-affinity subunits, and KA1 and KA2 are the high-affinity subunits. In the adult brain, KARs are located pre- and postsynaptically on pyramidal cells and on interneurons. Kainate receptors on GABA-containing interneurons enhance GABA release and thereby downregulate glutamatergic signaling. KARs have been implicated in numerous psychiatric disorders. Case control studies show significant association of Grik4 with both schizophrenia and bipolar disorder. Despite its predicted molecular weight, Grik4 often migrates at a lower molecular weight in SDS-PAGE.Synonyms: EAA1, Excitatory amino acid receptor 1, Glutamate receptor ionotropic kainate 4
Gene ID:	2900
UniProt:	Q16099
Pathways:	Synaptic Membrane

Application Details

Application Notes:	ELISA. Western Blot: 0.5 - 1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

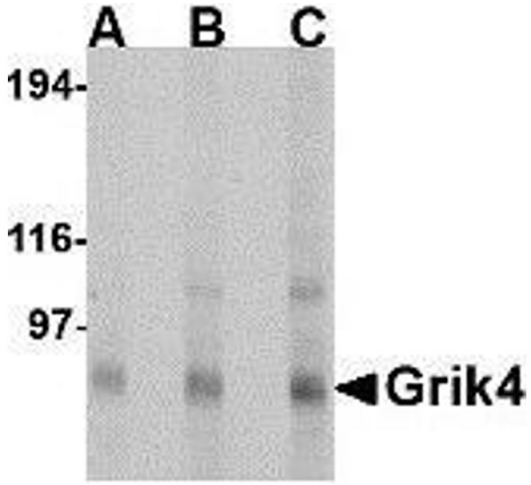
Handling

Buffer:	PBS containing 0.02 % 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
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical staining of human brain tissue using AP30385PU-N Grik4 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of Grik4 in Rat brain tissue lysate with AP30385PU-N Grik4 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml.