# antibodies -online.com





## anti-GRIK4 antibody (C-Term)

2 Images



Go to Product page

#### Overview

Quantity:	0.1 mg
Target:	GRIK4
Binding Specificity:	C-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 19 amino acid peptide near the carboxy 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	

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.

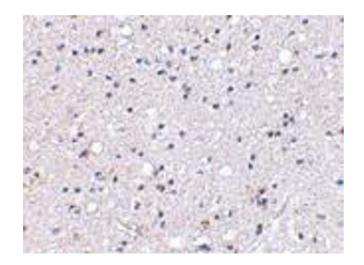
Restrictions: For Research Use only

#### 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

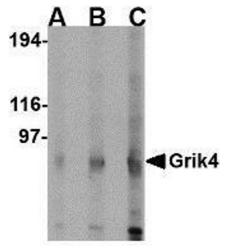
Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C. DO NOT FREEZE!



#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemical staining of human brain tissue using AP30384PU-N Grik4 antibody at  $2.5 \, \mu g/ml$ .



#### **Western Blotting**

**Image 2.** Western blot analysis of Grik4 in rat brain lysate with Grik4 antibody at (A) 0.5 (B) 1 and (C) 2  $\mu$ g/ml.