

Anti-Grik4 Antibody

Catalog Number: A09195

About GRIK4

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.

Overview

Product Name	Anti-Grik4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Grik4 Antibody (Catalog # A09195). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Grik4 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Grik4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8BMF5

Technical Details

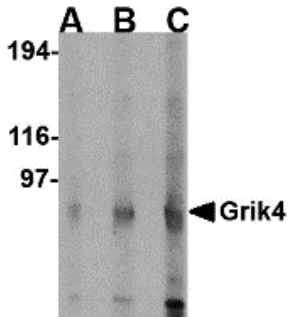
Immunogen	Grik4 antibody was raised against a 18 amino acid synthetic peptide near the carboxy terminus of the mouse Grik4. The immunogen is located within the last 50 amino acids of Grik4.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Grik4 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

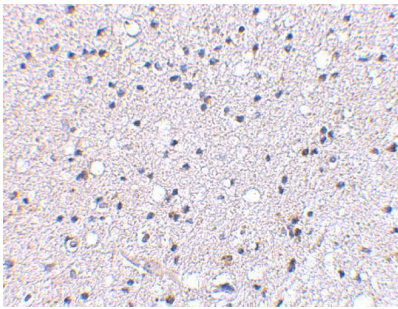
Grik4 antibody can be used for detection of Grik4 by Western blot at 0.5 - 2 ug/mL. Despite its predicted molecular weight, Grik4 often migrates at a lower molecular weight in SDS-PAGE. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

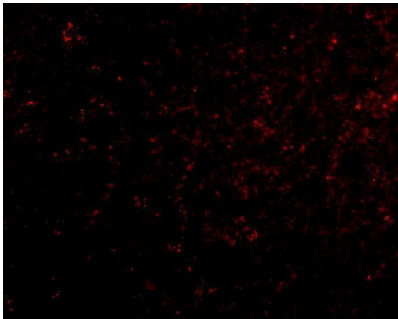
Anti-Grik4 Antibody (A09195) Images



Western blot analysis of Grik4 in rat brain lysate with Grik4 antibody at (A) 0.5 (B) 1 and (C) 2 ug/mL.



Immunohistochemical staining of human brain tissue using Grik4 antibody at 2.5 ug/mL.



Immunofluorescence of Grik4 in Human Brain cells with Grik4 antibody at 20 ug/mL.

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Anti-Grik4 Antibody

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