

Anti-Grik5 Antibody

Catalog Number: A13341

About GRIK5

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. Grik5, also known as kainate-preferring glutamate receptor subunit KA2, belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Grik5 is highly homologous to the related ionotropic glutamate receptor Grik4 (also known as KA1). Like Grik4, Grik5 does not form homomeric channels, but instead forms heteromers with Grik2. In Grik2- but not Grik1-null mice, Grik5 surface expression is greatly reduced in neurons, indicating that Grik2/Grik5 heteromers are required for exit from the endoplasmic reticulum to the cell surface.

Overview

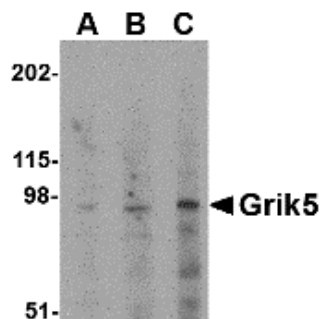
Product Name	Anti-Grik5 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Grik5 Antibody (Catalog # A13341). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Grik5 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Grik5 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	Q16478

Technical Details

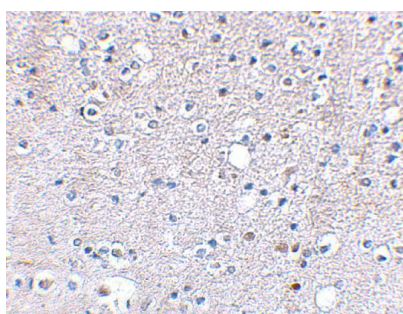
Immunogen	Grik5 antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of the human Grik5. The immunogen is located within the last 50 amino acids of Grik5.
Predicted Reactive Species	Bovine
Cross Reactivity	This Grik5 antibody does not cross-react with Grik4.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	Grik5 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Grik5 antibody can be used for detection of Grik5 by Western blot at 0.5 - 2 ug/mL. 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 human 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.

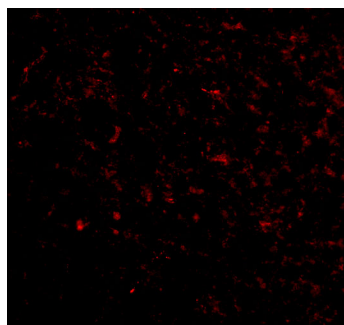
Anti-Grik5 Antibody (A13341) Images



Western blot analysis of Grik5 in human brain tissue lysate with Grik5 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemical staining of human brain tissue using Grik5 antibody at 2.5 ug/mL.



Immunofluorescence of Grik5 in Human Brain cells with Grik5 antibody at 20 ug/mL.

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Anti-Grik5 Antibody

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