

## Anti-Grik1 Antibody

Catalog Number: A06001

### About GRIK1

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. Grik1, also known as glutamate receptor 5, belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Grik1 is expressed in GABAergic interneurons of the hippocampus and are thought to participate in the formation of various subtypes of kainate receptors with Grik2 and KA2. Stimulation of Grik1 leads to intracellular calcium release and activation of protein kinase C. Excessive activation has been associated with psychiatric, neurological and neurodegenerative diseases. Numerous isoforms of Grik1 are known to exist and may be subject to RNA editing within the second transmembrane domain, which is thought to alter the properties of ion flow.

### Overview

Product Name	Anti-Grik1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Grik1 Antibody (Catalog # A06001). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Grik1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P39086

### Technical Details

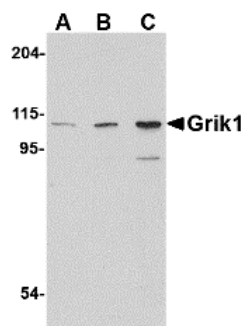
Immunogen	Grik1 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of the human Grik1. The immunogen is located within the last 50 amino acids of Grik1.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Grik1 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

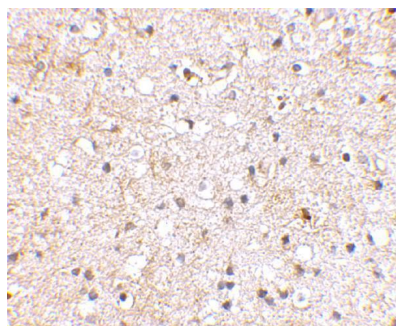
Grik1 antibody can be used for detection of Grik1 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

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

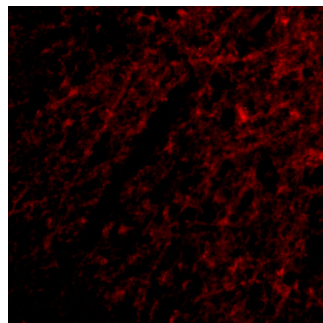
## Anti-Grik1 Antibody (A06001) Images



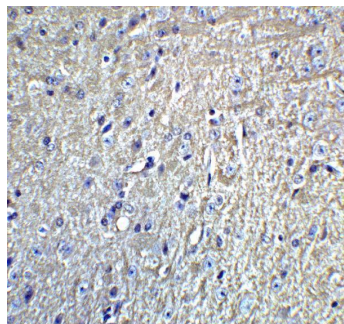
Western blot analysis of Grik1 in P815 cell lysate with Grik1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemical staining of human brain tissue using Grik1 antibody at 2.5 ug/mL.

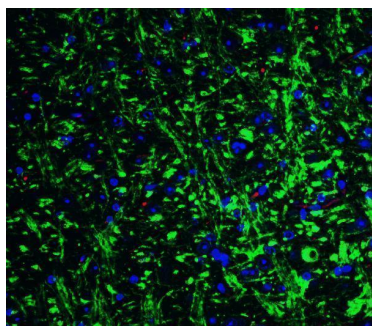


Immunofluorescence of Grik1 in Human Brain cells with Grik1 antibody at 20 ug/mL.



Immunohistochemistry of Grik1 in mouse brain tissue with Grik1 Antibody at 5 ug/mL.

Immunofluorescence of Grik1 in mouse brain tissue with Grik1 Antibody at 20 ug/mL. Green: Grik1 antibody (A06001) Red: Phylloidin staining Blue: DAPI staining



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Anti-Grik1 Antibody

For Research Use Only. Not for use in diagnostic procedures.