

Product datasheet for **TA306500**

GRIK5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Grik5 antibody was raised against a 17 amino acid peptide near the carboxy terminus of the human Grik5.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutamate ionotropic receptor kainate type subunit 5
Database Link:	NP_002079 Entrez Gene 14809 Mouse Entrez Gene 24407 Rat Entrez Gene 2901 Human Q16478



[View online »](#)

Background:

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. This Grik5 antibody does not cross-react with Grik4.

Synonyms:

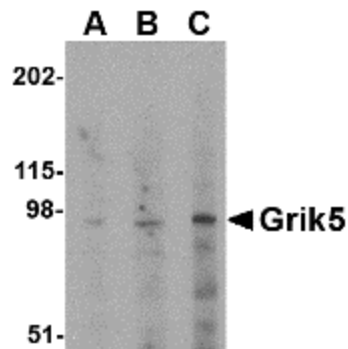
EAA2; GluK5; GRIK2; KA2

Protein Families:

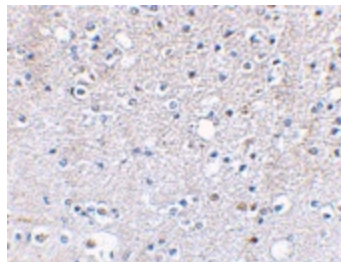
Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways:

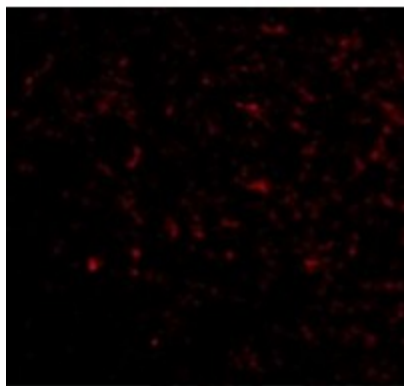
Neuroactive ligand-receptor interaction

Product 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.