

**Grik2 Antibody**  
**Catalog # ASC10608****Specification**

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**Grik2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13002</a>
Other Accession	<a href="#">Q13002</a> , <a href="#">2492627</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	Grik2 antibody can be used for detection of Grik2 by Western blot at 0.5 - 1 µg/mL.

**Grik2 Antibody - Additional Information**

Gene ID	2898
Target/Specificity	
GRIK2;	

**Reconstitution & Storage**

Grik2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

Grik2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Grik2 Antibody - Protein Information**

**Name** GRIK2

**Synonyms** GLUR6

**Function**

Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist (PubMed:<a href="http://www.uniprot.org/citations/28180184" target="\_blank">28180184</a>). Modulates cell surface expression of NETO2 (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein

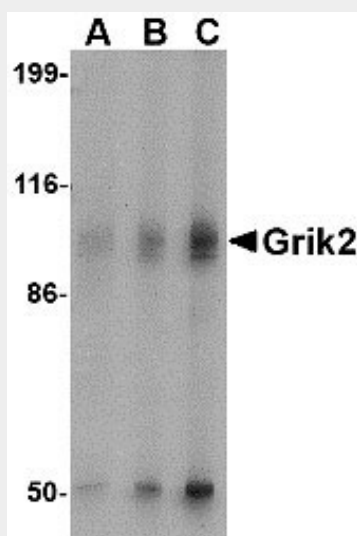
**Tissue Location**

Expression is higher in cerebellum than in cerebral cortex

**Grik2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Grik2 Antibody - Images**

Western blot analysis of Grik2 in human brain tissue lysate with Grik2 antibody at (A) 0.5 and (B) 1 µg/mL.

**Grik2 Antibody - Background**

**Grik2 Antibody:** Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. Grik2, also known as glutamate receptor 6, belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Recent reports have suggested that defects in the Grik2 protein may be associated with autosomal recessive mental retardation and possibly other neurological disorders such as schizophrenia. Numerous isoforms of Grik2 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. This Grik2 antibody may exhibit some cross-reactivity to Grik3.

**Grik2 Antibody - References**

Tanaka K. Functions of glutamate transports in the brain. *Neurosci. Res.*2000; 37:15-9.  
Pinheiro P and Mulle C. Kainate receptors. *Cell Tissue Res.*2006; 326:457-82.

Paschen W, Blackstone CD, Huganir RL, et al. Human GluR6 kainate receptor (GRIK2): molecular cloning, expression, polymorphism, and chromosomal assignment. *Genomics* 1994; 20:435-40.

Motazacker MM, Rost BR, Hucho T, et al. A defect in the ionotropic glutamate receptor 6 gene (GRIK2) is associated with autosomal recessive mental retardation. *Am. J. Hum. Genet.* 2007; 81:792-8.