

GRIK2

Purified Mouse Monoclonal Antibody Catalog # AO2592a

# **Product Information**

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW	WB, IHC, ICC, E Q13002 Human Mouse Monoclonal 8A1F11 Mouse IgG1 102583
Calculated MW Immunogen	102583 Purified recombinant fragment of human GRIK2 (AA: extra 45-226) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

## **Additional Information**

Gene ID	2898
Other Names	EAA4; GLR6; MRT6; GLUK6; GLUR6; GluK2
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GRIK2 is for research use only and not for use in diagnostic or therapeutic procedures.

## **Protein Information**

Name	GRIK2
Synonyms	GLUR6
Function	Ionotropic glutamate receptor that functions as a cation permeable ligand-gated ion channel, gated by L-glutamate and the glutamatergic agonist kainic acid. 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: <u>14511640</u> , PubMed: <u>28180184</u> , PubMed: <u>34375587</u> , PubMed: <u>7536611</u> , PubMed: <u>8730589</u> ). Modulates cell surface expression of NETO2. In association with GRIK3, involved in presynaptic facilitation of glutamate release at hippocampal mossy fiber synapses (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250 UniProtKB:P42260}; Multi-pass membrane protein
Tissue Location	Expression is higher in cerebellum than in cerebral cortex.

#### References

1.Biochemistry. 2010 Nov 2;49(43):9207-16.2.Mol Pharmacol. 2009 May;75(5):1096-107.

#### Images



Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

Figure 2:Western blot analysis using GRIK2 mAb against human GRIK2 (AA: extra 45-226) recombinant protein. (Expected MW is 46.5 kDa)

Figure 3:Western blot analysis using GRIK2 mAb against HEK293 (1) and GRIK2 (AA: extra 45-226)-hIgGFc transfected HEK293 (2) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.