10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GRIK2

Purified Mouse Monoclonal Antibody
Catalog # AO2592a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q13002
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8A1F11
Isotype	Mouse IgG1
Calculated MW	102583
Immunogen	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 (PubMed:7536611, PubMed:8730589, PubMed:14511640). L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system (By similarity). Binding of the excitatory neurotransmitter L-glutamate induces a conformational change leading to the opening of the cation channel, converting the chemical signal to an electrical

impulse (By similarity). The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist (PubMed:14511640, PubMed:28180184, PubMed:34375587, PubMed:7536611, PubMed:8730589). Modulates cell surface expression of NETO2 (By similarity). 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 {ECO:0000250|UniProtKB:P42260}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P42260}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P42260}

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

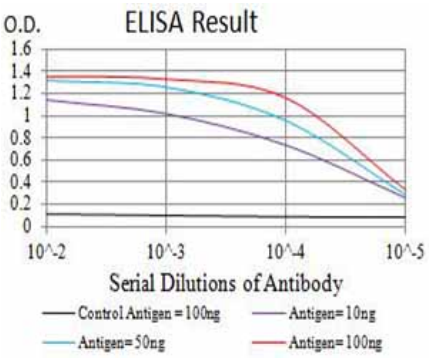


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

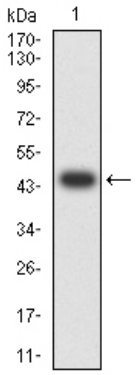
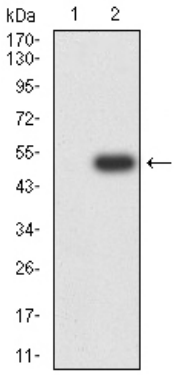


Figure 2:Western blot analysis using GRIK2 mAb against human GRIK2 (AA: extra 45-226) recombinant protein. (Expected MW is 46.5 kDa)

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'.