

GRIK2
Purified Mouse Monoclonal Antibody
Catalog # AO2592a**Specification**

GRIK2 - Product Information

Application	E, WB
Primary Accession	Q13002
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	102.5kDa KDa
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

GRIK2 - Additional Information

Gene ID 2898

Other Names

EAA4; GLR6; MRT6; GLUK6; GLUR6; GluK2

Dilution

E~~ 1/10000

WB~~ 1/500 - 1/2000

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.

GRIK2 - 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:14511640, PubMed:28180184, PubMed:34375587, PubMed:7536611, PubMed:8730589). 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.

GRIK2 - 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 - Images

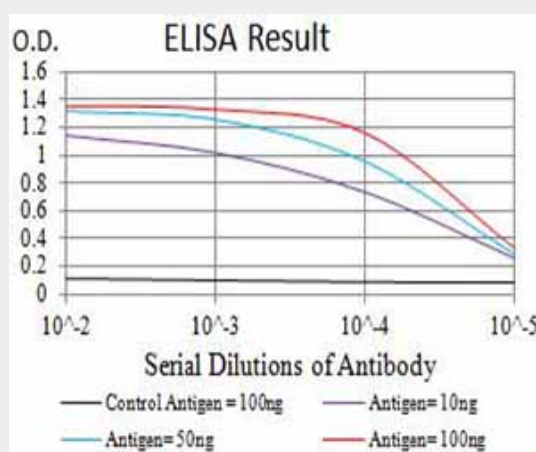


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

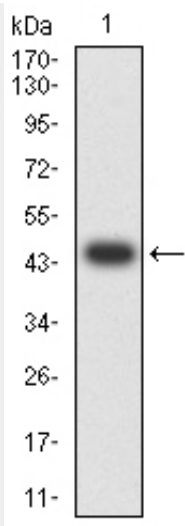


Figure 2: Western blot analysis using GRIK2 mAb against human GRIK2 (AA: extra 45-226) recombinant protein. (Expected MW is 46.5 kDa)

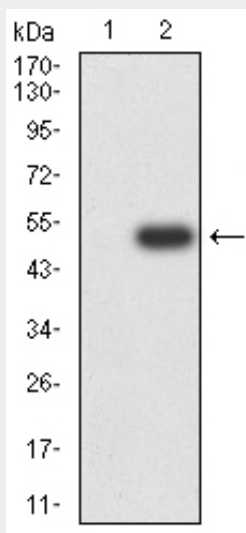


Figure 3: Western blot analysis using GRIK2 mAb against HEK293 (1) and GRIK2 (AA: extra 45-226)-hlgGFc transfected HEK293 (2) cell lysate.

GRIK2 - References

1. Biochemistry. 2010 Nov 2;49(43):9207-16. 2. Mol Pharmacol. 2009 May;75(5):1096-107.