

GRIK3
Purified Mouse Monoclonal Antibody
Catalog # AO2593a**Specification**

GRIK3 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q13003
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	104kDa KDa

Immunogen

Purified recombinant fragment of human GRIK3 (AA: extra 32-173) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRIK3 - Additional Information

Gene ID 2899

Other Names

EAA5; GLR7; GLUR7; GluK3; GluR7a

Dilution

WB~~ 1/500 - 1/2000

IHC~~ 1:100~500

ICC~~ 1/200 - 1/1000

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

GRIK3 is for research use only and not for use in diagnostic or therapeutic procedures.

GRIK3 - Protein Information

Name GRIK3

Synonyms GLUR7

Function

Ionotropic glutamate receptor that functions as a cation- permeable ligand-gated ion channel,

gated by L-glutamate and the glutamatergic agonist kainic acid. 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:7719709). In association with GRIK2, involved in presynaptic facilitation of glutamate release at hippocampal mossy fiber synapses (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P42264}; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P42264}; Multi-pass membrane protein

GRIK3 - 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](#)

GRIK3 - Images

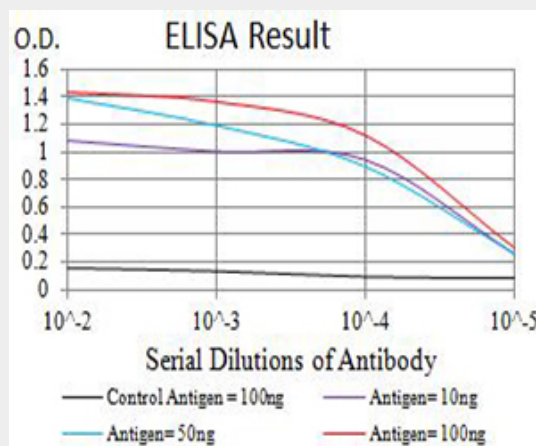


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10 ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

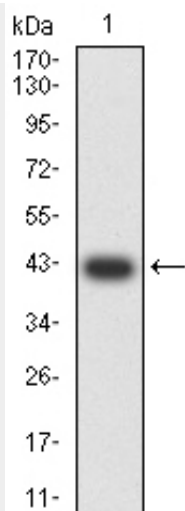


Figure 2: Western blot analysis using GRIK3 mAb against human GRIK3 (AA: extra 32-173) recombinant protein. (Expected MW is 42 kDa)

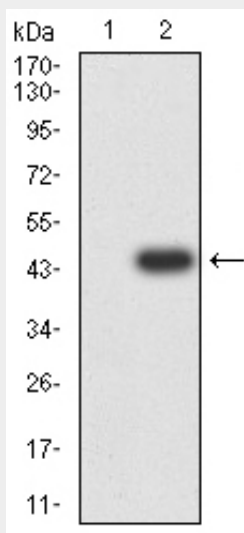


Figure 3: Western blot analysis using GRIK3 mAb against HEK293 (1) and GRIK3 (AA: extra 32-173)-hlgGfc transfected HEK293 (2) cell lysate.

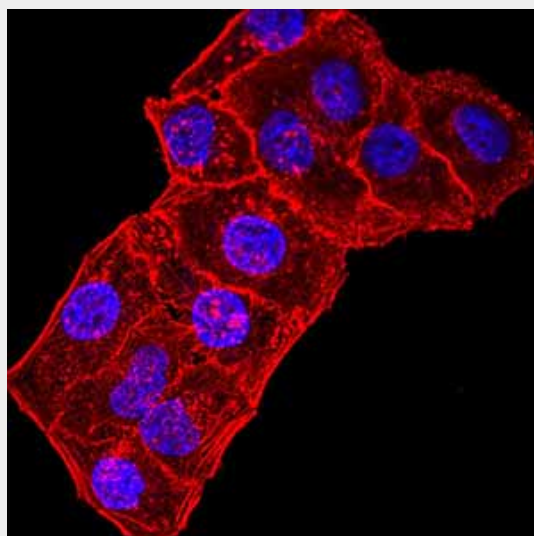


Figure 4:Immunofluorescence analysis of Hela cells using GRIK3 mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

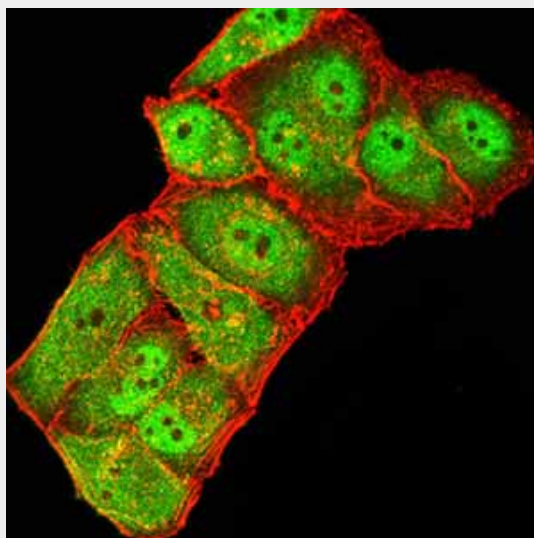


Figure 5:Immunofluorescence analysis of Hela cells using GRIK3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

GRIK3 - References

- 1.Am J Med Genet A. 2014 Feb;164A(2):456-60.2.Eur Addict Res. 2013;19(1):55-9.