

GRIK4
Purified Mouse Monoclonal Antibody
Catalog # AO2594a**Specification**

GRIK4 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q16099
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	107.2kDa KDa

Immunogen

Purified recombinant fragment of human GRIK4 (AA: extra 21-166) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRIK4 - Additional Information

Gene ID 2900

Other Names

KA1; EAA1; GRIK; GluK4

Dilution

WB~~ 1/500 - 1/2000

IHC~~ 1/200 - 1/1000

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

GRIK4 is for research use only and not for use in diagnostic or therapeutic procedures.

GRIK4 - Protein Information

Name GRIK4

Synonyms GRIK

Function

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

Cannot form functional channels on its own (PubMed:8263508). Shows channel activity only in heteromeric assembly with GRIK1, GRIK2 and GRIK3 subunits (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q8BMF5}; Multi-pass membrane protein. Presynaptic cell membrane {ECO:0000250|UniProtKB:Q8BMF5}; Multi-pass membrane protein

GRIK4 - 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](#)

GRIK4 - Images

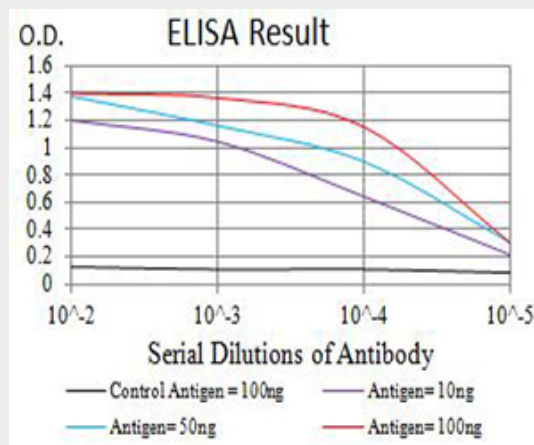


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

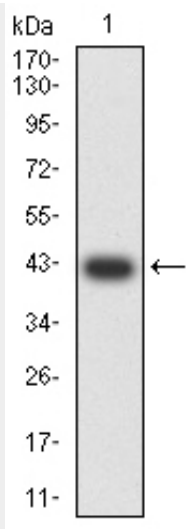


Figure 2: Western blot analysis using GRIK4 mAb against human GRIK4 (AA: extra 21-166) recombinant protein. (Expected MW is 42 kDa)

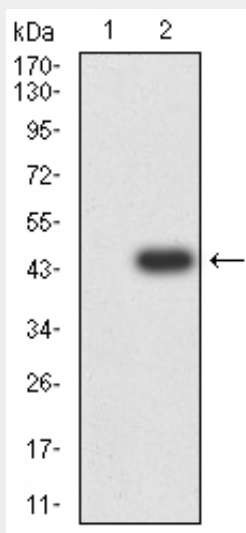


Figure 3: Western blot analysis using GRIK4 mAb against HEK293 (1) and GRIK4 (AA: extra 21-166)-hlgGFc transfected HEK293 (2) cell lysate.

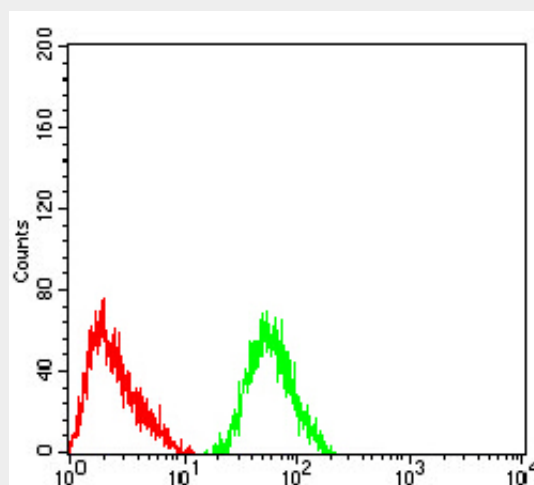


Figure 6: Flow cytometric analysis of SH-SY5Y cells using GRIK4 mouse mAb (green) and negative

control (red).

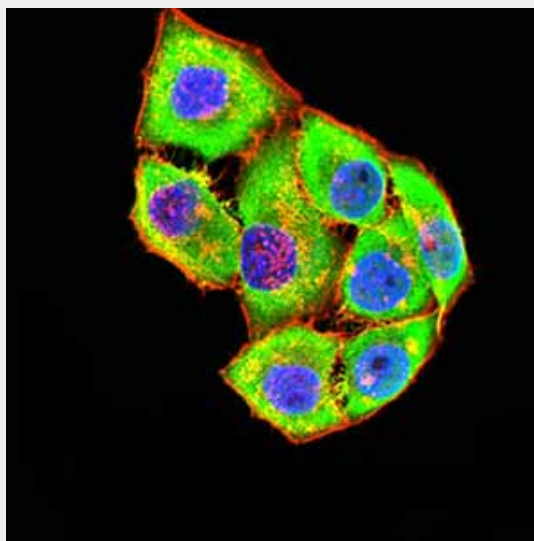


Figure 4:Immunofluorescence analysis of HeLa cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

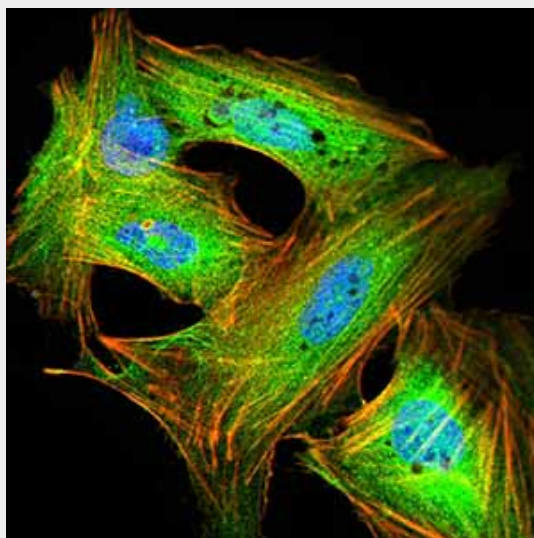


Figure 5:Immunofluorescence analysis of SK-N-SH cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

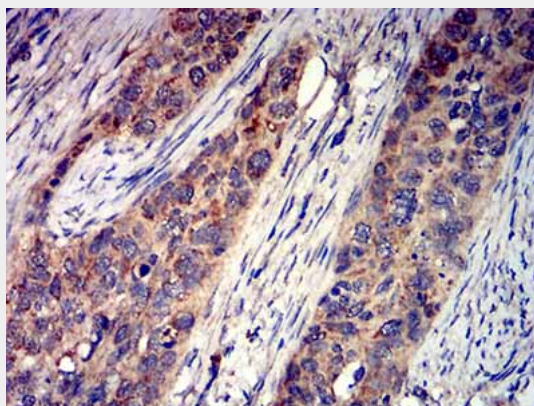


Figure 7:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using GRIK4 mouse mAb with DAB staining.

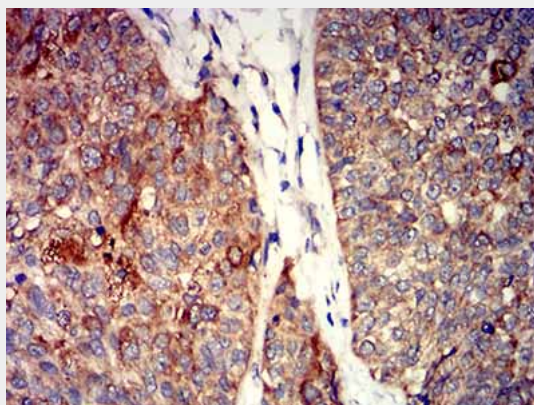


Figure 8:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using GRIK4 mouse mAb with DAB staining.

GRIK4 - References

1.Pharmacogenomics. 2014 Aug;15(11):1451-9.2.Am J Med Genet B Neuropsychiatr Genet. 2012 Jan;159B(1):21-9.