10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.622.0609

GRIK4
Purified Mouse Monoclonal Antibody
Catalog # AO2594a

Specification

GRIK4 - Product Information

Application	E, WB, FCM, ICC, IHC
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

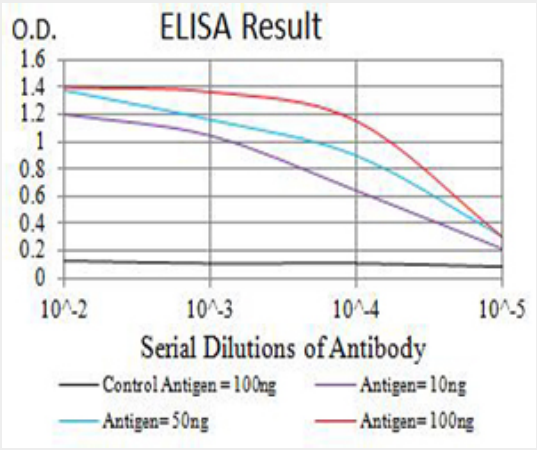

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

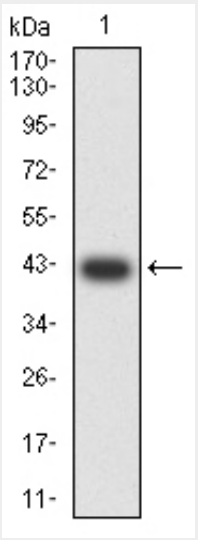

Figure 2:Western blot analysis using GRIK4 mAb against human GRIK4 (AA: extra 21-166) recombinant protein. (Expected MW is 42 kDa)

GRIK4 - Additional Information

Gene ID 2900

Other Names
KA1; EAA1; GRIK; GluK4

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
FCM~~1/200 - 1/400
ICC~~ 1/200 - 1/1000
IHC~~ 1/200 - 1/1000

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

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Name GRIK4

Synonyms GRIK

Function
Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists.

Cellular Location
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein

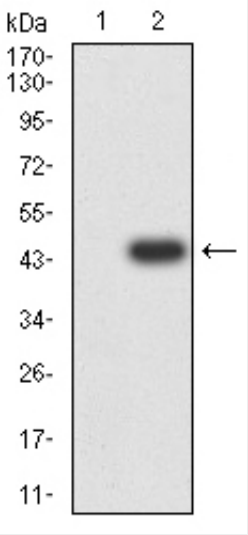

Figure 3:Western blot analysis using GRIK4 mAb against HEK293 (1) and GRIK4 (AA: extra 21-166)-hIgGFc transfected HEK293 (2) cell lysate.

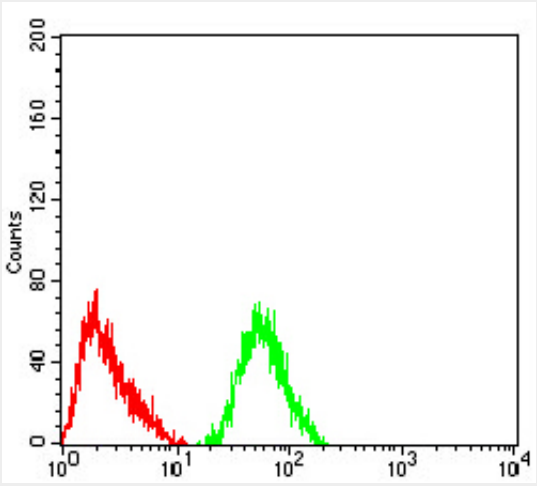

Figure 6:Flow cytometric analysis of SH-SY5Y cells using GRIK4 mouse mAb (green) and negative control (red).

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 Cytomety
- Cell Culture

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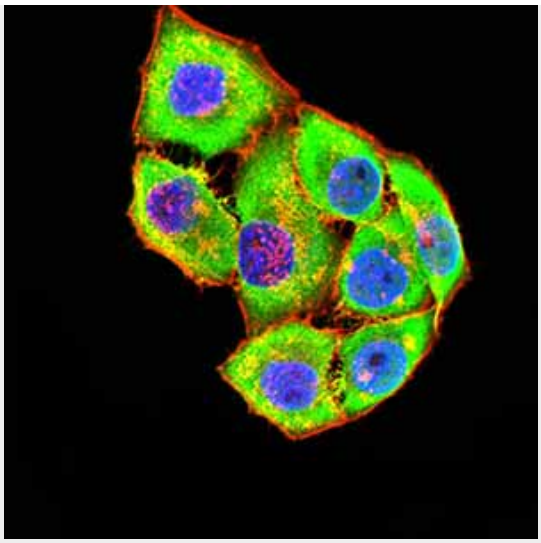

Figure 4:Immunofluorescence analysis of Hela cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

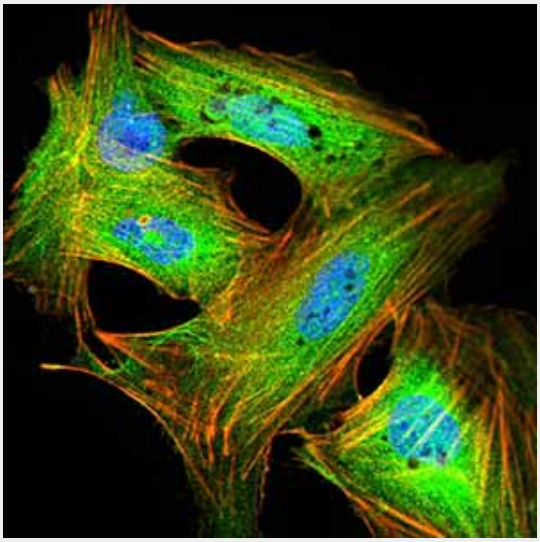

Figure 5:Immunofluorescence analysis of SK-N-SH cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

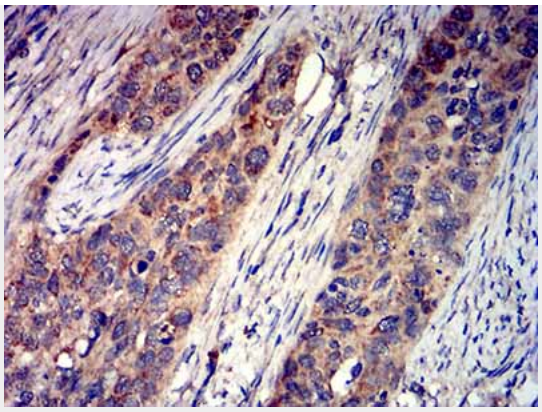

Figure 7:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using GRIK4 mouse mAb with DAB staining.

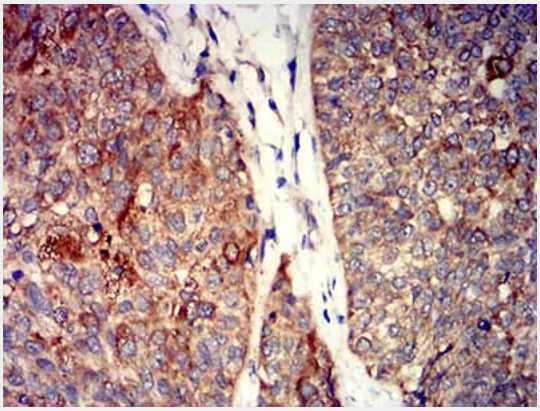

Figure 8:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using GRIK4 mouse mAb with DAB staining.

GRIK4 - References

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