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# GRIK4

Purified Mouse Monoclonal Antibody
Catalog # AO2594a

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, ICC, E |
| **Primary Accession** | Q16099 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 8H5G5 |
| **Isotype** | Mouse IgG2b |
| **Calculated MW** | 107246 |
| **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 |

## Additional Information

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|---|---|
| **Gene ID** | 2900 |
| **Other Names** | KA1; EAA1; GRIK; GluK4 |
| **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** | GRIK4 is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **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

## References

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

## Images

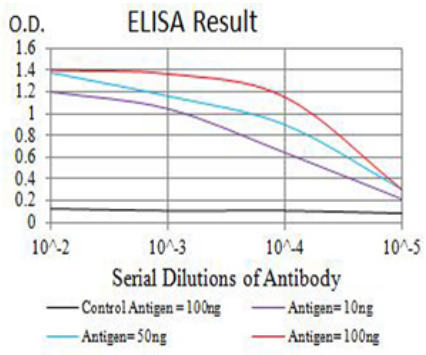



Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

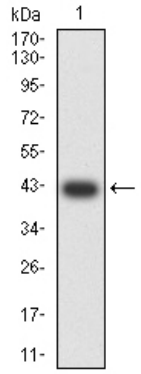



Figure 2:Western blot analysis using GRIK4 mAb against human GRIK4 (AA: extra 21-166) recombinant protein. (Expected MW is 42 kDa)

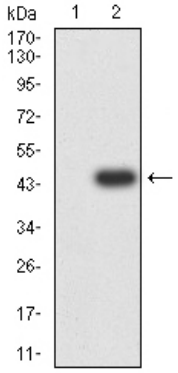
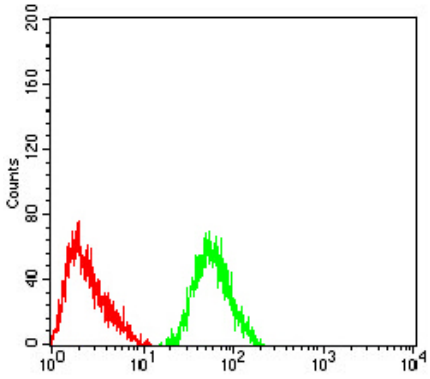



Figure 3:Western blot analysis using GRIK4 mAb against HEK293 (1) and GRIK4 (AA: extra 21-166)-hIgGFc transfected HEK293 (2) cell lysate.

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



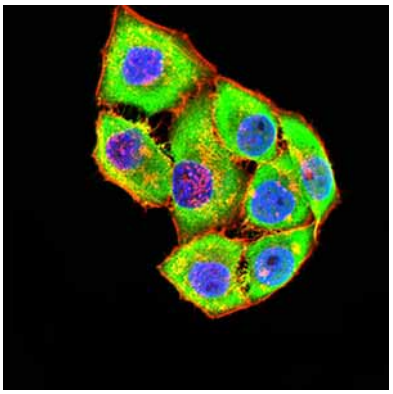



Figure 4:Immunofluorescence analysis of Hela cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

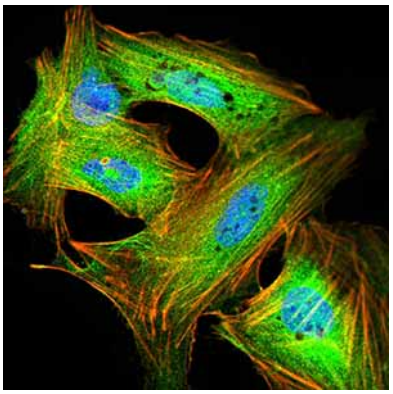


Figure 5:Immunofluorescence analysis of SK-N-SH cells using GRIK4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

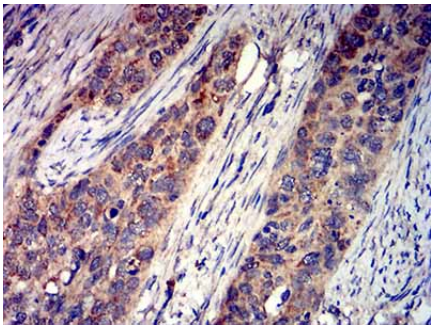


Figure 7:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using GRIK4 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.