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GRIN3B
Purified Mouse Monoclonal Antibody
Catalog # AO2558a

Specification

GRIN3B - Product Information

Application	**WB, IHC, ICC, E**
Primary Accession	O60391
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**113kDa KDa**

Immunogen
Purified recombinant fragment of human GRIN3B (AA: 135-276) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

GRIN3B - Additional Information

Gene ID 116444

Other Names
NR3B; GluN3B

Dilution
WB~~ 1/500 - 1/2000
IHC~~1:100~500
ICC~~N/A
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
GRIN3B is for research use only and not for use in diagnostic or therapeutic procedures.

GRIN3B - Protein Information

Name GRIN3B (HGNC:16768)

Function
Component of a non-conventional N-methyl-D-aspartate (NMDA) receptors (NMDARs) that function as heterotetrameric, ligand-gated cation channels with low calcium permeability and low voltage-dependent block by Mg(2+) (By similarity). Forms glutamatergic receptor complexes with

GluN1 and GluN2 subunits which are activated by glycine binding to the GluN1 and GluN3 subunits and L-glutamate binding to GluN2 subunits (By similarity). Forms excitatory glycinergic receptor complexes with GluN1 alone which are activated by glycine binding to the GluN1 and GluN3 subunits. GluN3B subunit also binds D-serine and, in the absence of glycine, activates glycinergic receptor complexes, but with lower efficacy than glycine (By similarity). Each GluN3 subunit confers differential attributes to channel properties, including activation, deactivation and desensitization kinetics, pH sensitivity, Ca2(+) permeability, and binding to allosteric modulators (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q91ZU9}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q13224} Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q91ZU9} Note=Requires the presence of GRIN1 to be targeted at the plasma membrane. {ECO:0000250|UniProtKB:Q91ZU9}

GRIN3B - 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

GRIN3B - Images

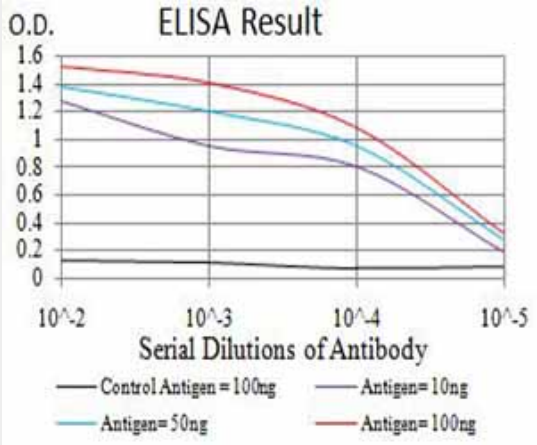

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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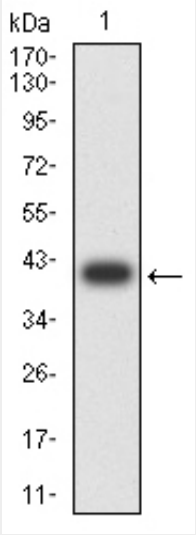

Figure 2:Western blot analysis using GRIN3B mAb against human GRIN3B (AA: 135-276) recombinant protein. (Expected MW is 40.8 kDa)

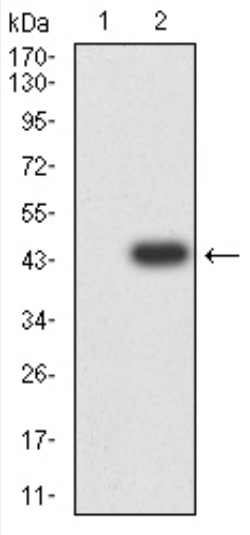

Figure 3:Western blot analysis using GRIN3B mAb against HEK293 (1) and GRIN3B (AA: 135-276)-hIgGFc transfected HEK293 (2) cell lysate.

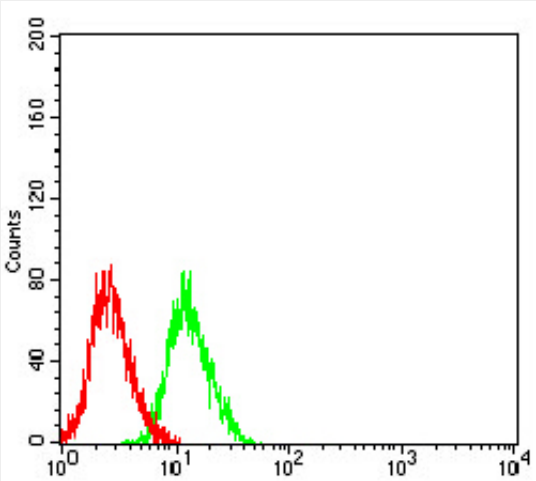

Figure 4:Flow cytometric analysis of SH-SY5Y cells using GRIN3B mouse mAb (green) and

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negative control (red).

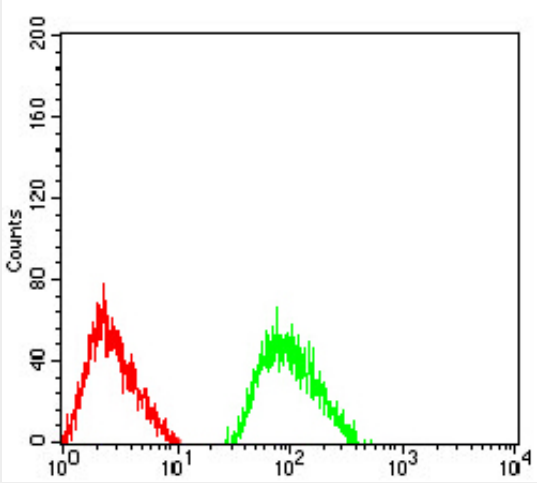

Figure 5:Flow cytometric analysis of SK-N-SH cells using GRIN3B mouse mAb (green) and negative control (red).

GRIN3B - References

1.PLoS One. 2015 Mar 13;10(3):e0116319.2.Psychiatry Res. 2014 Aug 30;218(3):356-8.