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GRIN3B

Purified Mouse Monoclonal Antibody
Catalog # AO2558a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	O60391
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2A8E11
Isotype	Mouse IgG2a
Calculated MW	112992
Immunogen	Purified recombinant fragment of human GRIN3B (AA: 135-276) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

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.

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}

References

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

Images

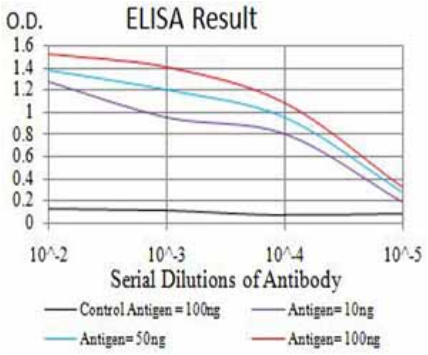

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

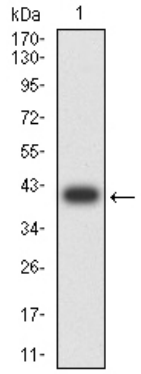

Figure 2:Western blot analysis using GRIN3B mAb against human GRIN3B (AA: 135-276) recombinant protein. (Expected MW is 40.8 kDa)

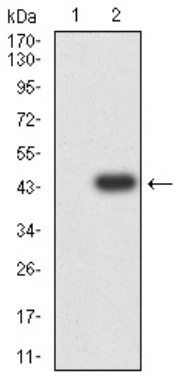

Figure 3:Western blot analysis using GRIN3B mAb against HEK293 (1) and GRIN3B (AA: 135-276)-hIgGFc transfected HEK293 (2) cell lysate.

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

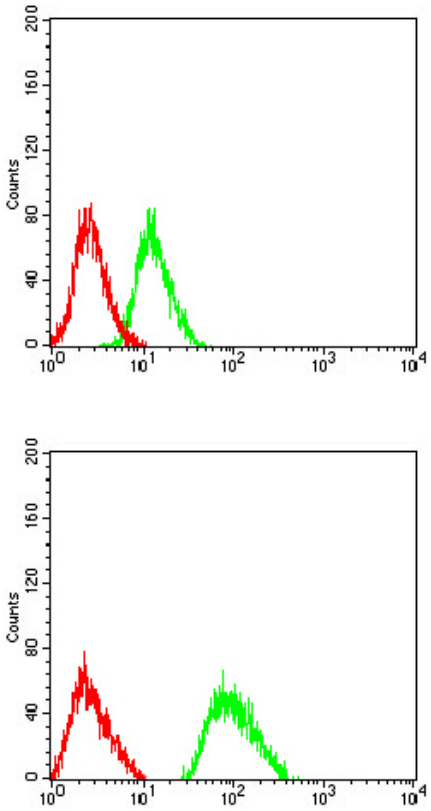

Figure 5:Flow cytometric analysis of SK-N-SH cells using GRIN3B mouse mAb (green) and negative control (red).

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