Data Sheet (Cat.No.TMAC-02858)

Anti-GRIN1 Antibody (2T28)

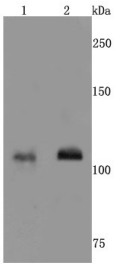
Product Details

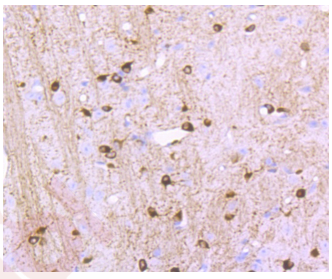
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 105 kDa.
Clone:	2T28
Purification:	ProA affinity purified

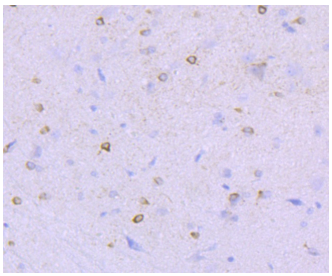
Applications

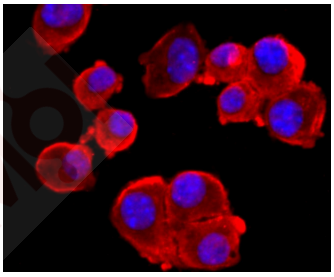
Verified Activity:

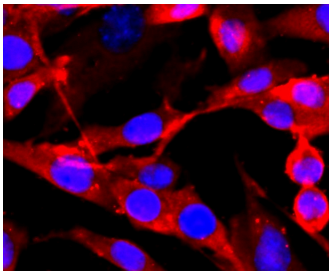
1. Western blot analysis of NMDAR1 on different cells lysates using anti-NMDAR1 antibody at 1/500 dilution. Positive control: Line 1: MCF-7, Line 2: A549.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-NMDAR1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-NMDAR1 antibody. Counter stained with hematoxylin.
4. ICC staining NMDAR1 in N2A cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining NMDAR1 in SHG-44 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining NMDAR1 in SH-SY5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of SH-SY5Y cells with NMDAR1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

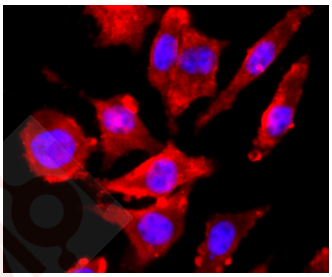


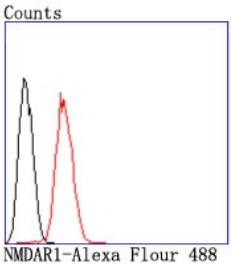












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q05586
Synonyms:	NMDAR1;GluN1;Glutamate [NMDA] receptor subunit zeta-1;hNR1);N-methyl-D-aspartate receptor subunit NR1 (NMD-R1;NMDA 1;Glutamate receptor ionotropic, NMDA 1;GRIN1

Research Background

NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.