

## NMDAR2B RABBIT PAB

**Cat.#:** N225335

**Product Name:** Anti-NMDAR2B Rabbit pAb

**Synonyms:** glutamate receptor; ionotropic; N-methyl D-aspartate 2B; MRD6; NR2B; hNR3; GluN2B; NMDAR2B

**UNIPROT ID:** Q13224

**Background:** Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by  $Mg^{2+}$  (PubMed:8768735, PubMed:26919761, PubMed:26875626, PubMed:28126851). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:8768735, PubMed:26875626). In concert with DAPK1 at extrasynaptic sites, acts as a central mediator for stroke damage. Its phosphorylation at Ser-1303 by DAPK1 enhances synaptic NMDA receptor channel activity inducing injurious  $Ca^{2+}$  influx through them, resulting in an irreversible neuronal death. Contributes to neural pattern formation in the developing brain. Plays a role in long-term depression (LTD) of hippocampus membrane currents and in synaptic plasticity (By similarity).

**Immunogen:** Synthetic peptide of human GRIN2B

**Applications:** ICC/IF

**Recommended Dilutions:** ICC: 1/100-1/200

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Clone ID:** -

**MW:** -

**Isotype:** IgG

**Purification:** Affinity Purified

**Species Reactivity:** Human, Mouse, Rat

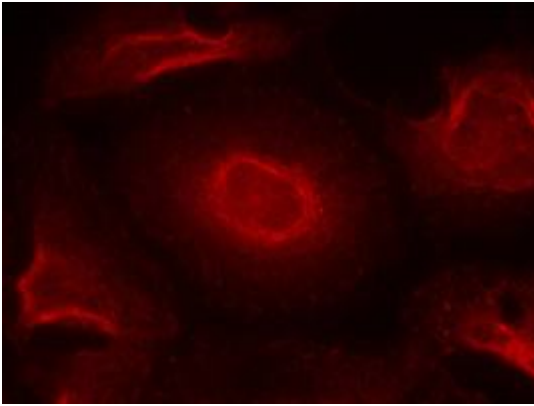
**Conjugation:** Unconjugated

**Modification:** Unmodified

**Constituents:** PBS (without  $Mg^{2+}$  and  $Ca^{2+}$ ), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

**Research Areas:** Neuroscience

**Storage & Shipping:** Store at  $-20^{\circ}C$ . Avoid repeated freezing and thawing



Immunofluorescence analysis of NMDAR2B (red) in Hela cells using NMDAR2B antibody.