

Human GluR4 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2913A Catalog Number: MAB11363

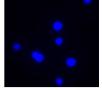
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human GluR4 in direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2913A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	E. coli-derived recombinant human GluR4 Met112-His314 Accession # P48058.2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Immunocytochemistry	3-15 μg/mL	Immersion fixed Transfected HEK293 Human Embryonic Kidney Cell Line (Positive) and absent in Wild Type HEK293 Human Embryonic Kidney Cell Line (Negative)		

DATA

Immunocytochemistry





Transfected HEK 293 (Positive) cells Wild-type HEK 293 (Negative) cells

(Positive) and Wild Type HEK293 Cell Line (Negative). GluR4 was detected in immersion fixed Transfected HEK293 Human Embryonic Kidney Cell Line (Positive) and absent in Wild Type HEK293 Human Embryonic Kidney Cell Line (Negative) using Rabbit Anti-Human GluR4 Monoclonal Antibody (Catalog # MAB11363) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for

Fluorescent ICC Staining of Cells

on Coverslips.

Detection of GluR4 in Transfected HEK293 Cell Line

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Ionotropic glutamate receptor 4 (GluR4) is a 100.9 kDa protein that is part of a family (iGluR 1-7) of ligand-gated ion channels that mediates fast transmission of neurotransmitter signals in neuronal cells. These receptors respond to several agonists including N-methyl-d-aspartic acid (NMDA), α-amino-3-hydroxyl-5-methylisoxazole-4-proprionic acid (AMPA), or kainic acid (KA). iGluRs are tetrameric structures made by the dimerization of dimers. These receptors can form through a combination of iGluR1-iGluR4 subunits. Mature human GluR4 is a 902 amino acid (aa) molecule, and alternate gene-splicing results in transcript variations encoding different isoforms that may effect their signal transduction properties. GluR4 is made up of an extracellular amino-terminal domain (ATD), ligand binding domain (LBD), a common pore-forming transmembrane domain (TMD) and an intracellular C-terminal domain (CTD). GluR4's clam-shell shaped LBD binds to agonists. The LBD closes upon ligand binding to induce a conformational change to the TMD, resulting in the ion channel opening. GluR4 is highly expressed in areas that utilize fast kinetics and rapid desensitization. Examples of GluR4 expression include tissues of the central cervical nucleus in rats, the outer plexiform layer of goldfish, the retinal cells of chicken embryos and the human cerebral cortex.

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