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Product datasheet for TA328841

Grm6 Rabbit Polyclonal Antibody

Product data:

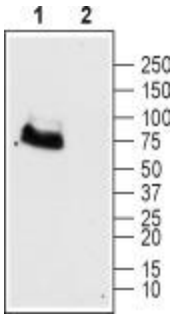
Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)GQSDDSTRK(S)TGEE, corresponding to amino acid residues 368-381 of rat mGluR6. Extracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutamate metabotropic receptor 6
Database Link:	NP_075209 Entrez Gene 2916 HumanEntrez Gene 108072 MouseEntrez Gene 24419 Rat P35349

View online »

Background: Glutamate is the principal excitatory neurotransmitter in the central nervous system. It operates through two main classes of receptors: ionotropic receptors (iGluRs), which are ligand-gated ion channels, and metabotropic receptors (mGluRs), which couple to G-proteins to modulate cellular responses via ion channels or intracellular second messengers. The metabotropic receptors include eight family members (mGluR1-mGluR8) classified into three groups according to their sequence similarities, signal transduction, and agonist selectivity. They all share a common structure, being composed of a single polypeptide with large N-terminal extracellular domain connected through a seven transmembrane domain motif to the intracellular C-terminal tail. The different mGluR subtypes are localized at both presynaptic and postsynaptic membranes, and are involved in the generation of slow excitatory and inhibitory synaptic potentials, modulation of synaptic transmission, synaptic integration, and plasticity. mGluR6 belongs to the third group of metabotrophic glutamate receptors. Its expression in the central nervous system is restricted to retinal rod bipolar cells, and it's localized to their postsynaptic dendritic membranes. In the peripheral nervous system, it is also detected in bone marrow stromal cells. mGluR6 inhibits adenylate cyclase, and was shown to inhibit Ca2+ influx and nitric oxide synthase activity.

Synonyms: CSNB1B; DKFZp686H1993; GPRC1F; mGlu6; MGLUR6

Product images:



Western blot analysis of rat eye lysates: 1. Anti-mGluR6 (extracellular) antibody, (1:200). 2. Anti-mGluR6 (extracellular) antibody, preincubated with the control peptide antigen.