ARG52340
anti-GRM7 phospho (Ser862) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GRM7 phospho (Ser862)
Tested Reactivity	Ms, Rat
Predict Reactivity	Hu, Bov, Dog, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GRM7
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser862 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	MGLU7; GPRC1G; Metabotropic glutamate receptor 7; GLUR7; mGluR7; PPP1R87; MGLUR7

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for the ~102k mGluR7 protein phosphorylated at Ser862. Immunolabeling is blocked by preadsorption of antibody with the phospho-peptide used as antigen but not by the corresponding dephosphopeptide.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

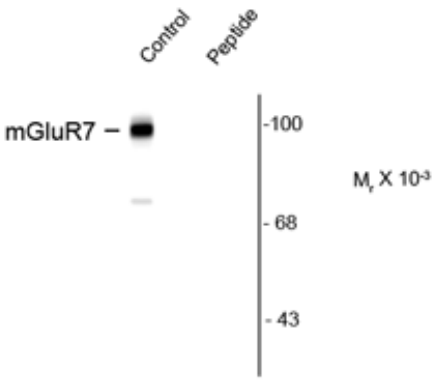
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 108073 Mouse GeneID: 81672 Rat Swiss-port # P35400 Rat Swiss-port # Q68ED2 Mouse
Gene Symbol	GRM7
Gene Full Name	glutamate receptor, metabotropic 7
Background	Metabotropic glutamate receptors (mGluRs) are key receptors in the modulation of excitatory synaptic transmission in the central nervous system. They are implicated in many forms of neural plasticity as well as learning and memory and drug abuse (Bhattacharya et al., 2004; Francesconi et al., 2004; Wilson and Nicoll, 2001). The mGluRs are divided into three groups based on sequence identity and pharmacological properties: group I (mGluR1 and mGluR5) are localized in the perisynaptic region of the postsynaptic membrane, whereas group II (mGlur2 and mGluR3) and group III (mGluR4,6,7 and 8) are localized predominantly at presynaptic terminals. PKC phosphorylation of serine 862 on mGluR7 has been shown to be critical for stabilizing receptor surface expression and promoting binding to the synaptic PDZ-domain-containing protein PICK1 (Suh et al., 2008).
Research Area	Neuroscience antibody
Calculated Mw	102 kDa

Images



ARG52340 anti-GRM7 phospho (Ser862) antibody WB image

Western blot: Mouse brain lysate showing the specific immunolabeling of the ~102k mGluR7 protein phosphorylated at Ser 862 stained with ARG52340 anti-GRM7 phospho (Ser862) antibody. Immunolabeling is blocked by the phospho-peptide used as antigen.