

Datasheet for ABIN361416

anti-Metabotropic Glutamate Receptor 1 antibody (C-Term)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µL
Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Metabotropic Glutamate Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH
Specificity:	Specific for the ~125k monomer and the ~250k mGluR1a dimer. Immunolabeling blocked by preadsorption of antibody with the peptide used to generate the antibody.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Purification:	Antigen Affinity Purified

Target Details

Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Alternative Name:	GRM1 (GRM1 Products)

Target Details

Background: The 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). Group I metabotropic glutamate receptors (consisting of mGluR1 and mGluR5) are G-protein-coupled neurotransmitter receptors that are localized in the perisynaptic region of the postsynaptic membrane. When activated, Group I mGluRs lead to stimulation of phospholipase and activation of Protein Kinase C. In contrast, activation of Group II metabotropic receptors (mGluR2 and mGluR3) leads to inhibition of adenylate cyclase. The mGluR1 receptor may also be critically involved in limiting the deleterious effects of excitotoxicity (Blaabjerg et al., 2003). Anti-mGluR1a Western blot of 10 ug of HEK 293 cells expressing mGluR1a and mGluR5 showing the specific immunolabeling of the ~125k monomer and the ~250k dimer of mGluR1a. The mGluR1a antibody shows no reactivity toward mGluR5.

Molecular Weight: 125/250 kDa

Gene ID: 24414

UniProt: [P23385](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1000 IHC (frozen sections, unpublished observations): 1:500
Quality Control: Western blots performed on each lot.

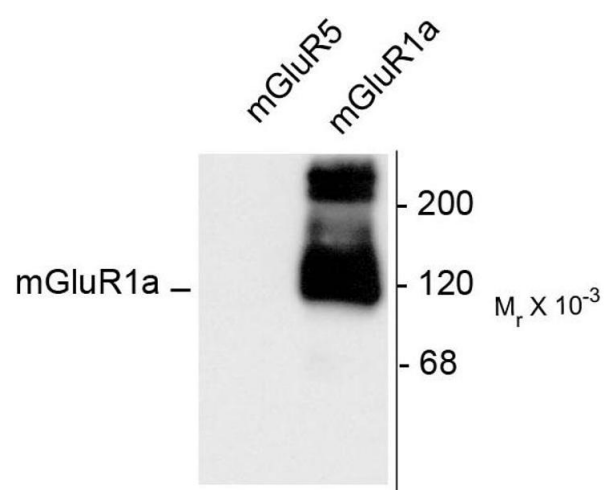
Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.

Storage: -20 °C



Western Blotting

Image 1. Western blots of 10 ug of HEK 293 cells expressing mGluR1a and mGluR5 showing the specific immunolabeling of the ~125k monomer and the ~250k dimer of mGluR1a. The mGluR1a antibody shows no reactivity toward mGluR5.