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anti-Metabotropic Glutamate Receptor 5 antibody (AA 824-1203)



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3 Images

Overview

Over view	
Quantity:	100 μg
Target:	Metabotropic Glutamate Receptor 5 (GRM5)
Binding Specificity:	AA 824-1203
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),
	Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

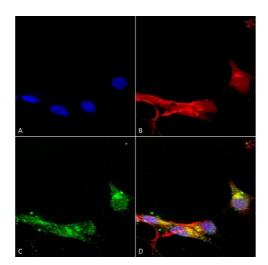
Immunogen:	Fusion protein amino acids 824-1203 (cytoplasmic C-terminus) of rat mGluR5b
Clone:	S75-33
Isotype:	lgG1
Specificity:	Detects ~130 kDa (both mGluR1 and mGluR5).
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

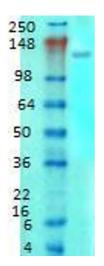
Target Details

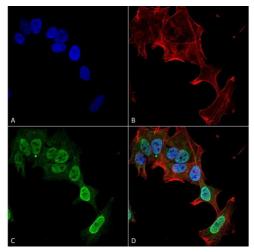
Target:	Metabotropic Glutamate Receptor 5 (GRM5)
Alternative Name:	mGluR5 (GRM5 Products)

Target Details

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Background:	The AMPA receptor is a non-NMDA-type ionotropic transmembrane receptor for glutamate tha
	mediates fast synaptic transmission in the CNS. AMPARs are composed of four types of
	subunits, designated as GluR1, GluR2, GluR3 and GluR4, which combine to form tetramers
	(1,2).
Gene ID:	24418
NCBI Accession:	NP_058708
UniProt:	P31424
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Regulation of long-term Neuronal
	Synaptic Plasticity
Application Details	
Application Notes:	• WB (1:1000)
	• IHC (1:1000)
	• ICC/IF (1:100)
	optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN1027721 was sufficient for detection of mGluR1/5 glutamate receptor in 20 μg
	of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti
	mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C







Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-mGluR1/5 Monoclonal Antibody, Clone S75-33 (ABIN1027721). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-mGluR1/5 Monoclonal Antibody (ABIN1027721) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) mGluR1/5 Antibody (D) Composite.

Western Blotting

Image 2. Western Blotting rat brain membrane mGluR1 5 1 in 1000.

Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-mGluR1/5 Monoclonal Antibody, Clone S75-33 (ABIN1027721). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-mGluR1/5 Monoclonal Antibody (ABIN1027721) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain, DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cell Membrane,

Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) mGluR1/5 Antibody. (D) Composite.