antibodies

Datasheet for ABIN1686619 anti-GABBR2 antibody (AA 861-912)

3 Images



Overview

Quantity:	100 µg
Target:	GABBR2
Binding Specificity:	AA 861-912
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Fusion protein amino acids 861-912 of rat GABA(B)R2
Clone:	S81-2
Isotype:	lgG1
Specificity:	Detects ~105 kDa. No cross-reactivity against GABA(B)R1.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	GABBR2
Alternative Name:	GABA B Receptor 2 (GABBR2 Products)

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Target Details	
Background:	GABA (γ-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous
	system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor.
	The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion channels that produce fast
	inhibitory synaptic transmission. In contrast, the metabotropic GABA(B) receptor is coupled to
	G proteins that modulate slow inhibitory synaptic transmission (1). Functional GABA(B)
	receptors form heterodimers of GABA(B)R1 and GABA(B)R2 where GABA(B)R1 binds the ligand
	and GABA(B)R2 is the primary G protein contact site (2). Two isoforms of GABA(B)R1 have
	been cloned: GABA(B)R1a is a 130 kD protein and GABA(B)R1b is a 95 kD protein (3). G proteins
	subsequently inhibit adenyl cylase activity and modulate inositol phospholipid hydrolysis.
	GABA(B) receptors have both pre- and postsynaptic inhibitions: presynaptic GABA(B) receptors
	inhibit neurotransmitter release through suppression of high threshold calcium channels, while
	postsynaptic GABA(B) receptors inhibit through coupled activation of inwardly rectifying
	potassium channels. In addition to synaptic inhibition, GABA(B) receptors may also be involved
	in hippocampal long-term potentiation, slow wave sleep and muscle relaxation (1).
Gene ID:	83633
UniProt:	088871

Pathways:

Preservative:

cAMP Metabolic Process

Sodium azide

Application Details

Application Notes:	WB (1:1000)optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN1686619 was sufficient for detection of GABA(B)R2 in 20 μg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse lgG: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

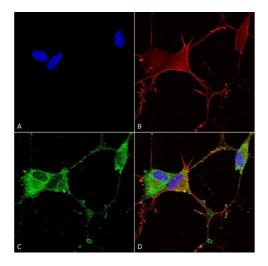
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

Images

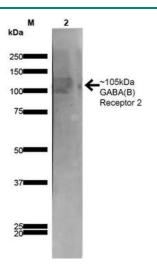


Immunocytochemistry

1. Immunocytochemistry/Immunofluorescence Image analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 (ABIN1686619). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody (ABIN1686619) 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) GABA-B Receptor 2 Antibody (D) Composite.

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABA-B Receptor 2 Antibody (D) Composite.



Western Blotting

Image 3. Western Blot analysis of Rat Brain Membrane showing detection of ~105 kDa GABA B Receptor 2 protein using Mouse Anti-GABA B Receptor 2 Monoclonal Antibody, Clone S81-2 . Lane 1: MW Ladder. Lane 2: Rat Brain Membrane (10 μg). . Load: 10 μg. Block: 5% milk. Primary Antibody: Mouse Anti-GABA B Receptor 2 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: TMB solution for 10 min at RT. Predicted/Observed Size: ~105 kDa.

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