antibodies

# Datasheet for ABIN2484083 anti-GABBR2 antibody (AA 861-912) (Biotin)

3 Images



## Overview

Quantity:	100 µg	
Target:	GABBR2	
Binding Specificity:	AA 861-912	
Reactivity:	Rat	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This GABBR2 antibody is conjugated to Biotin	
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
lsotype:	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

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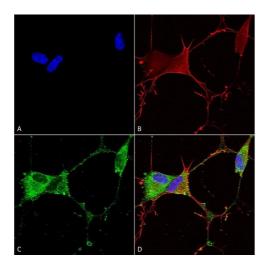
Target Details			
Alternative Name:	GABA B Receptor 2 (GABBR2 Products)		
Background:	GABA (γ-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous		
	system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor.		
	The ionotropic GABA(A) and 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:	cAMP Metabolic Process		
Application Details			
Application Notes:	• WB (1:1000)		
	optimal dilutions for assays should be determined by the user.		
Comment:	1 $\mu\text{g/ml}$ of ABIN2484083 was sufficient for detection of GABA(B)R2 in 20 $\mu\text{g}$ 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		

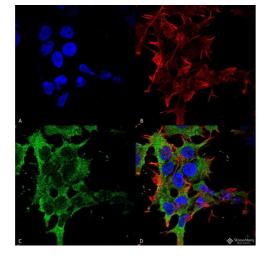
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Precaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which<br/>should be handled by trained staff only.Storage:4 °CStorage Comment:Conjugated antibodies should be stored at 4°C

## Images



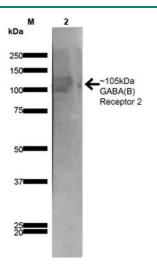


## Immunocytochemistry

Immunocytochemistry/Immunofluorescence 1. Image analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 (ABIN2484083). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody (ABIN2484083) 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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