antibodies

# Datasheet for ABIN2484091 anti-GABBR1 antibody (AA 873-977) (Atto 488)

3 Images



## Overview

Quantity:	100 µg
Target:	GABBR1
Binding Specificity:	AA 873-977
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GABBR1 antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

# Product Details

Immunogen:	Fusion protein amino acids 873-977 (cytoplasmic C-terminus) of rat GABA(B)R1
Clone:	S93A-49
lsotype:	IgG1
Specificity:	Detects ~115 kDa. No cross-reactivity against GABA(B)R2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

# Target Details

Target:	GABBR1
Alternative Name:	GABA B Receptor 1 (GABBR1 Products)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN2484091 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

l'arget 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 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:	81657
NCBI Accession:	NP_112290
UniProt:	Q9Z0U4
Pathways:	Positive Regulation of Peptide Hormone Secretion, cAMP Metabolic Process
Application Details	
Application Notes:	<ul><li>WB (1:1000)</li><li>optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 μg/ml of ABIN2484091 was sufficient for detection of GABA(B)R1 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

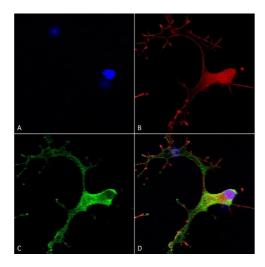
Target Details

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN2484091 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

		1.
_	Lond	lina
	land	1111(1
	1 and	

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

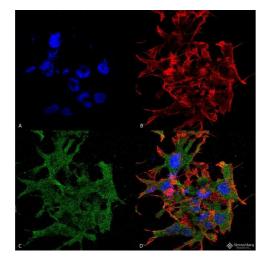


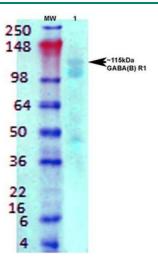
## Immunocytochemistry

Immunocytochemistry/Immunofluorescence 1. Image analysis using Mouse Anti-GABA-B Receptor 1 Monoclonal S93A-49 (ABIN2484091). Antibody, Clone Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GABA-B Receptor 1 Monoclonal Antibody (ABIN2484091) at 1:50 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 1 Antibody (D) Composite.

## Immunofluorescence (fixed cells)

**Image 2.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-B Receptor 1 Monoclonal Antibody, Clone S93A-49 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-B Receptor 1 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 1 Antibody (D) Composite.





## Western Blotting

**Image 3.** Western Blot analysis of Rat brain membrane Iysate showing detection of GABA B Receptor 1 protein using Mouse Anti-GABA B Receptor 1 Monoclonal Antibody, Clone S93A-49 . Primary Antibody: Mouse Anti-GABA B Receptor 1 Monoclonal Antibody at 1:1000.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN2484091 | 09/11/2023 | Copyright antibodies-online. All rights reserved.