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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-GABA B Receptor 2 Antibody [S81-2]

Mouse Anti-Rat GABA B Receptor 2 Monoclonal IgG1
Catalog No. SMC-402



Discovery through partnership | Excellence through quality

Overview

Product Name

GABA B Receptor 2 Antibody

Description

Mouse Anti-Rat GABA B Receptor 2 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Fusion protein amino acids 861-912 of rat GABA(B)R2

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S81-2

Isotype

IgG1

Specificity

Detects ~105kDa. No cross-reactivity against GABA(B)R1.

Cite This Product

Mouse Anti-Rat GABA B Receptor 2 Monoclonal, Clone S81-2 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-402)

Certificate Of Analysis

1 µg/ml of SMC-402 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 IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

BcDNA:GH07312 Antibody, CG6706 Antibody, CT20836 Antibody, D GABA[[B]]R2 Antibody, D Gaba2 Antibody, FLJ36928 Antibody, G protein coupled receptor 51 Antibody, G-protein coupled receptor 51 Antibody, GAB B R2 Antibody, GABA B R2 Antibody, GABA B receptor 2 Antibody, GABA B RECEPTOR Antibody, GABA-B receptor 2 Antibody, GABA-B-R2 Antibody, GABA-BR2 Antibody, GABA[[B]]R2 Antibody, GABAB R2 Antibody, GABABR 2 Antibody, GABABR2 Antibody, GABB R2 Antibody, GABBR 2 Antibody, GABBR2 Antibody, GABR2_HUMAN Antibody, Gamma aminobutyric acid (GABA) B receptor 2 Antibody, Gamma aminobutyric acid B receptor 2 Antibody, Gamma aminobutyric acid GABA B receptor 2 Antibody, Gamma aminobutyric acid type B receptor subunit 2 Antibody, Gamma-aminobutyric acid type B receptor subunit 2 Antibody, Gb 2 Antibody, Gb2 Antibody, GH07312 Antibody, GPR 51 Antibody, GPR51 Antibody, GPRC 3B Antibody, GPRC3B Antibody, HG 20 Antibody, HG20 Antibody, HRIHFB2099 Antibody, Metabotropic GABA B receptor subtype 2 Antibody, OTTHUMP00000021776 Antibody, OTTHUMP00000063797 Antibody, R2 SUBUNIT Antibody

Research Areas

GABA Receptors, GABAB Receptors, Neuroscience, Neurotransmitter Receptors

Cellular Localization

Cell Junction, Cell membrane, Postsynaptic cell membrane, Synapse

Accession Number

NP_113990.1

Gene ID

83633

Swiss Prot

O88871

Scientific Background

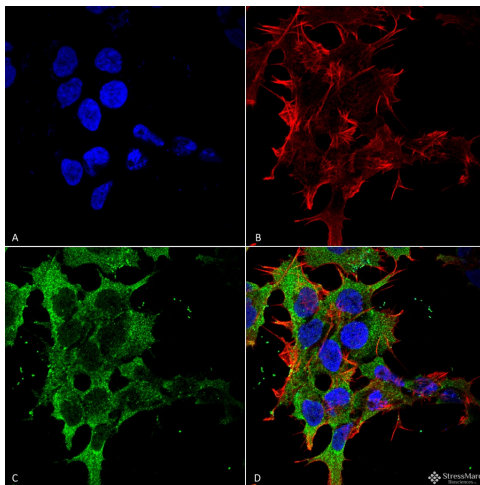
GABA (?-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor. The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion

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 adenylyl cyclase 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).

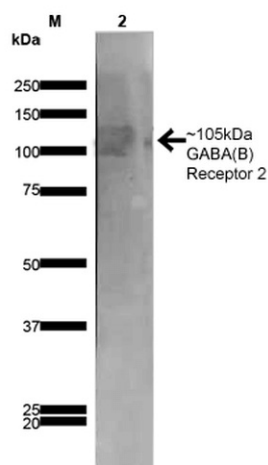
References

1. Jones K.A., et al. (2000) *Neuropsychopharmacology* 23: S41-9.
2. Duthey B., et al. (2002) *J Biol Chem.* 277: 3236-41.
3. Kaupmann K., et al. (1997) *Nature* 386: 239-46.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 (SMC-402). 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 (SMC-402) 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 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 (SMC-402). 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 (SMC-402) 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.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.