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- Mindermengenzuschlag
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Anti-GABA-B Receptor 1 Antibody [S93A-49]

Mouse Anti-Rat GABA-B Receptor 1 Monoclonal IgG1
Catalog No. SMC-403



Discovery through partnership | Excellence through quality

Overview

Product Name

GABA-B Receptor 1 Antibody

Description

Mouse Anti-Rat GABA-B Receptor 1 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, 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 873-977 (cytoplasmic C-terminus) of rat GABA(B)R1

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

S93A-49

Isotype

IgG1

Specificity

Detects ~115kDa. No cross-reactivity against GABA(B)R2.

Cite This Product

Mouse Anti-Rat GABA B Receptor 1 Monoclonal, Clone S93A-49 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-403)

Certificate Of Analysis

1 µg/ml of SMC-403 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.

Biological Description

Alternative Names

GABA-B receptor 1 Antibody, GABA-B-R1 Antibody, GABR1_Human Antibody, Gamma aminobutyric acid receptor 1 Antibody, GB1 Antibody, GPRC3A Antibody

Research Areas

GABA Receptors, GABAB Receptors, Neuroscience, Neurotransmitter Receptors

Cellular Localization

Cell Junction, Cell membrane, Postsynaptic cell membrane, Synapse

Accession Number

NP_112290.2

Gene ID

81657

Swiss Prot

Q9Z0U4

Scientific Background

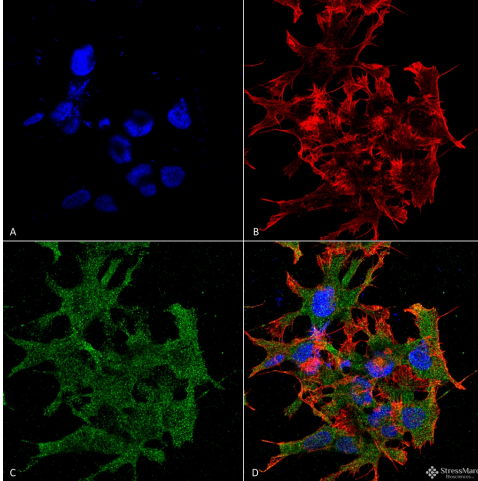
GABA (γ-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor. The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion channels that produce fast inhibitory synaptic transmission.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

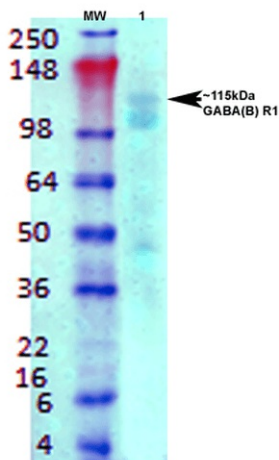
References

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 1 Monoclonal Antibody, Clone S93A-49 (SMC-403). 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 (SMC-403) 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 Blot analysis of Rat brain membrane lysate showing detection of GABA B Receptor 1 protein using Mouse Anti-GABA B Receptor 1 Monoclonal Antibody, Clone S93A-49 (SMC-403). Primary Antibody: Mouse Anti-GABA B Receptor 1 Monoclonal Antibody (SMC-403) at 1:1000.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.