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Anti-GABA A Receptor Alpha 4 Antibody [S398A-34]

Mouse Anti-Rat GABA A Receptor Alpha 4 Monoclonal IgG1
Catalog No. SMC-489



Discovery through partnership | Excellence through quality

Overview

Product Name

GABA A Receptor Alpha 4 Antibody

Description

Mouse Anti-Rat GABA A Receptor Alpha 4 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Fusion protein amino acids 410-450 (Cytoplasmic C-terminus) of rat GABA-A-Receptor Alpha 4

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, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S398A-34

Isotype

IgG1

Specificity

Detects ~60kDa. Does not cross-react with other GABA-A-Receptor Alpha subunits.

Cite This Product

Mouse Anti-Rat GABA A Receptor alpha 4 Monoclonal, Clone S398A-34 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-489)

Certificate Of Analysis

A 1:100 dilution of SMC-489 was sufficient for detection of GABA-A R, Alpha4 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

GABA A receptor subunit alpha 4 Antibody, GABRA4 Antibody, Gamma aminobutyric acid A receptor Alpha 4 Antibody

Research Areas

GABA Receptors, GABAA Receptors, Neuroscience, Neurotransmitter Receptors

Cellular Localization

Cell Junction, Cell membrane, Postsynaptic cell membrane, Synapse

Accession Number

NP_542154.3

Gene ID

140675

Swiss Prot

P28471

Scientific Background

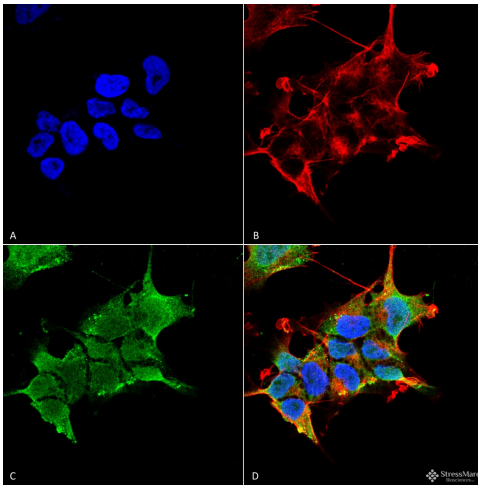
The GABA-A receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features (1). GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain (2). GABA-A Receptor Alpha 4 is associated with epilepsy (3), and research suggests that alterations in GABA- A Receptors subtypes may be involved in the resistance to antiepileptic drugs (4).

References

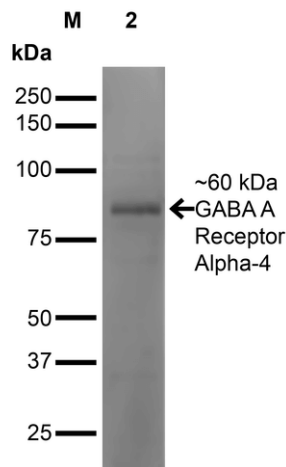
1. Bracamontes J.R. and Steinbach J.H. (2008) J Bio Chem. 283: 26128-26136.

2. Macdonald R.L., Olsen R.W. (1993) *Annu Rev Neurosci.* 17: 569-602.
3. Grabenstatter H.L., et al. (2014) *Epilepsia.* 55(11): 1826-1833.
4. Bethmann K., Fritschy J.M., Brandt C., Loscher W. (2008) *Neurobiol Dis.* 31(2): 169-187.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Alpha4 Monoclonal Antibody, Clone S398A-34 (SMC-489). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha4 Monoclonal Antibody (SMC-489) 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: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABA-A Receptor Alpha4 Antibody (D) Composite.



Western Blot analysis of Mouse Brain showing detection of ~60 kDa GABA-A-Receptor-Alpha4 protein using Mouse Anti-GABA-A-Receptor-Alpha4 Monoclonal Antibody, Clone S398A-34 (SMC-489). Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20 μ g. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-GABA-A-Receptor-Alpha4 Monoclonal Antibody (SMC-489) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~60 kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.