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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-GABA A Receptor Alpha 5 Antibody [S415-24]

Mouse Anti-Human GABA A Receptor Alpha 5 Monoclonal  
IgG1  
Catalog No. SMC-494



## Overview

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### Product Name

GABA A Receptor Alpha 5 Antibody

### Description

Mouse Anti-Human GABA A Receptor Alpha 5 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

Human

### Immunogen

Fusion protein amino acids 368-419 (last cytoplasmic domain before extracellular C-terminus) of human GABA A Receptor Alpha5.

### 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

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### 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

S415-24

## Isotype

IgG1

## Specificity

Detects ~55kDa. Does not cross-react with GABA-A Receptor Alpha2 or other GABA-A Receptors based on KO validation data.

## Cite This Product

Mouse Anti-Human GABA A Receptor alpha 5 Monoclonal, Clone S415-24 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-494)

## Certificate Of Analysis

A 1:100 dilution of SMC-494 was sufficient for detection of GABA-A R, Alpha5 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

## Biological Description

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### Alternative Names

Gamma-aminobutyric acid receptor subunit alpha-5 Antibody, GABA(A) Receptor subunit Alpha-5 Antibody, Gabra5 Antibody

### Research Areas

Alzheimer's Disease, GABA Receptors, GABAA Receptors, Ion Channels, Neurodegeneration, Neuroscience, Neurotransmitter Receptors

### Cellular Localization

Cell Junction, Cell membrane, Postsynaptic cell membrane, Synapse

### Accession Number

NP\_000801.1

### Gene ID

2558

### Swiss Prot

P31644

### Scientific Background

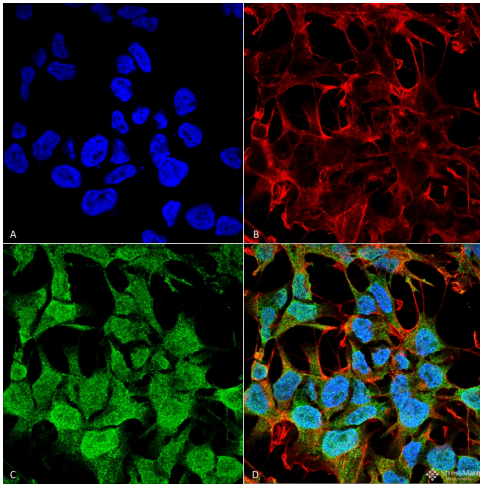
The GABA A Receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features (1). GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain (2). Recent research shows their usage in investigating side effects of drugs and the effects of learning and memory. Inverse agonists of the Alpha5 subunit may be useful in the treatment of Alzheimer's Disease (3).

### References

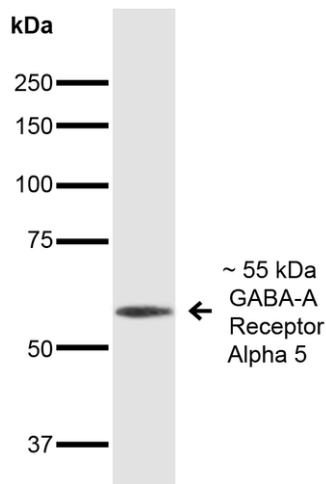
1. Bracamontes J.R. and Steinbach J.H. (2008) J Bio Chem. 283: 26128-26136.

2. Macdonald R.L., Olsen R.W. (1993) *Annu Rev Neurosci.* 17: 569-602.
3. Hengen K.B., et al. (2012) *PLoS One.* 7(1): e30608.

## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Alpha5 Monoclonal Antibody, Clone S415-24 (SMC-494). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha5 Monoclonal Antibody (SMC-494) 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 Junction, Synapse, Postsynaptic Cell Membrane, Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABA-A Receptor Alpha5 Antibody (D) Composite.



Western Blot analysis of Mouse Brain showing detection of ~55 kDa GABA A Receptor Alpha 5 protein using Mouse Anti-GABA A Receptor Alpha 5 Monoclonal Antibody, Clone S415-24 (SMC-494). Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20  $\mu$ g . Primary Antibody: Mouse Anti-GABA A Receptor Alpha 5 Monoclonal Antibody (SMC-494) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~55 kDa.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.