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anti-GABBR2 antibody (AA 861-912) (FITC)





Overview

| Quantity: | 100 μg |
|----------------------|---|
| Target: | GABBR2 |
| Binding Specificity: | AA 861-912 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This GABBR2 antibody is conjugated to FITC |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) |

Product Details

| Immunogen: | Fusion protein amino acids 861-912 of rat GABA(B)R2 |
|-------------------|--|
| Clone: | S81-2 |
| Isotype: | lgG1 |
| Specificity: | Detects ~105 kDa. No cross-reactivity against GABA(B)R1. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target Details

Target: GABBR2

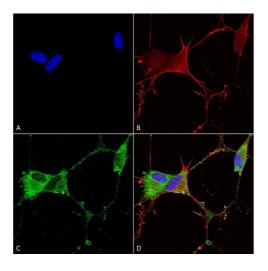
Target Details

| Alternative Name: | GABA B Receptor 2 (GABBR2 Products) |
|---------------------|--|
| 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 fas |
| | 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 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). |
| Gene ID: | 83633 |
| UniProt: | 088871 |
| Pathways: | cAMP Metabolic Process |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | 1 μg/ml of ABIN2484084 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. |
| 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 |
| | |

Handling

| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |
|--------------------|---|
| | should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Conjugated antibodies should be stored at 4°C |

Images



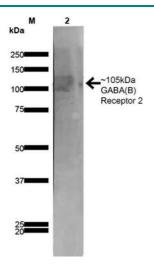
A B STREAMS

Immunocytochemistry

Immunocytochemistry/Immunofluorescence 1. **Image** analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 (ABIN2484084). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody (ABIN2484084) at 1:100 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 2 Antibody (D) Composite.

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-B Receptor 2 Monoclonal Antibody, Clone S81-2 . 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 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 Blotting

Image 3. 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 . 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 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.