Datasheet for ABIN2485719

anti-GABRA1 antibody (AA 350-385) (Atto 488)

Go to Product page

4 Images

Overview

Quantity:	100 µg
Target:	GABRA1
Binding Specificity:	AA 350-385
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GABRA1 antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Fusion protein amino acids 350-385 (Cytoplasmic C-terminus) of rat GABA-A Receptor Alpha2
Clone:	S399-19
Isotype:	IgG1
Specificity:	Detects ~55 kDa. Does not cross-react with GABA-A Receptor Alpha1.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	GABRA1

Target Details

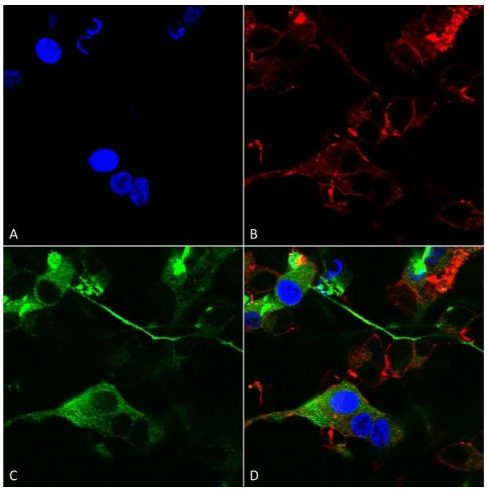
Alternative Name:	GABA A Receptor (GABRA1 Products)
Background:	The GABA-A receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features (1). GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain (2).
Gene ID:	289606
NCBI Accession:	NP_001129251
UniProt:	P23576

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:100 dilution of ABIN2485719 was sufficient for detection of GABA-A R, Alpha2 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

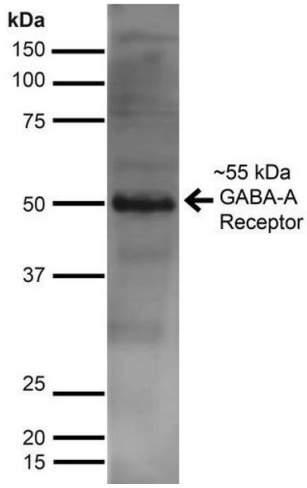
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
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



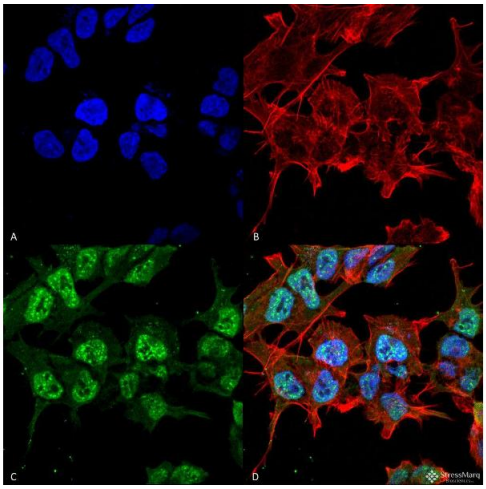
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Alpha 2 Monoclonal Antibody, Clone S399-19 (ABIN2485719). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha 2 Monoclonal Antibody (ABIN2485719) at 1:200 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-A Receptor Alpha 2 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain showing detection of ~55 kDa GABA A Receptor Alpha 2 protein using Mouse Anti-GABA A Receptor Alpha 2 Monoclonal Antibody, Clone S399-19 . Lane 1: MW Ladder. Lane 2: Rat Brain. Load: 10 µg. Block: 5% Skim Milk for 1 hour at RT. Primary Antibody: Mouse Anti-GABA A Receptor Alpha 2 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:100 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~55 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Alpha2 Monoclonal Antibody, Clone S399-19 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha2 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 60 min RT, 5 min RT. Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABA-A Receptor Alpha2 Antibody (D) Composite.

Please check the product details page for more images. Overall 4 images are available for ABIN2485719.