Datasheet for ABIN2485199

anti-ADRA2C antibody (AA 442-462) (Atto 488)

3 Images

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Overview

Quantity:	100 µg
Target:	ADRA2C
Binding Specificity:	AA 442-462
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ADRA2C antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetic peptide amino acids 442- 462 (QDFRRSFKHILFRRRRRGFRQ, cytoplasmic C-terminus) of human Alpha-2C adrenergic receptor
Clone:	S330A-80
Isotype:	IgG1
Specificity:	Detects 50 kDa or larger (possibly due to dimerization). Does not cross-react with other adrenergic receptors.
Cross-Reactivity:	Human, Mouse
Purification:	Protein G Purified

Target Details

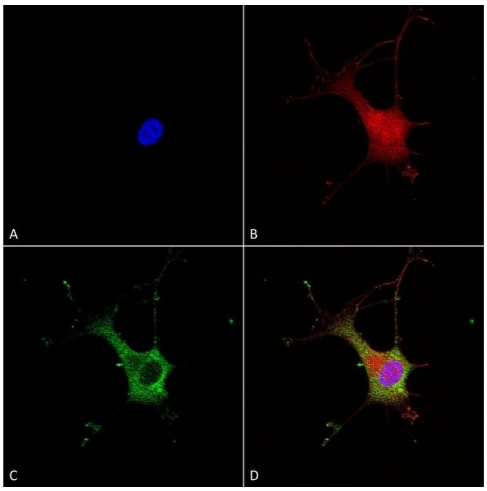
Target:	ADRA2C
Alternative Name:	Alpha2C Adrenergic (ADRA2C Products)
Background:	The alpha 2C Adrenergic Receptor controls the release of neurotransmitter from central adrenergic neurons and from sympathetic nerves in the heart. This receptor also plays a role in cognitive and behavioral function. Two variants are produced by alternative splicing. Alpha 2C Adrenergic Receptor has been reported extensively in the brain. Blood, corpus cavermosum, kidney, and heart tissues have also been reported to express the protein.
Gene ID:	152
NCBI Accession:	NP_000674
UniProt:	P18825
Pathways:	EGFR Signaling Pathway, 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 ABIN2485199 was sufficient for detection of Alpha2C Adrenergic Receptor in 20 µg of COS cells transiently transfected with HA-tagged Alpha- lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

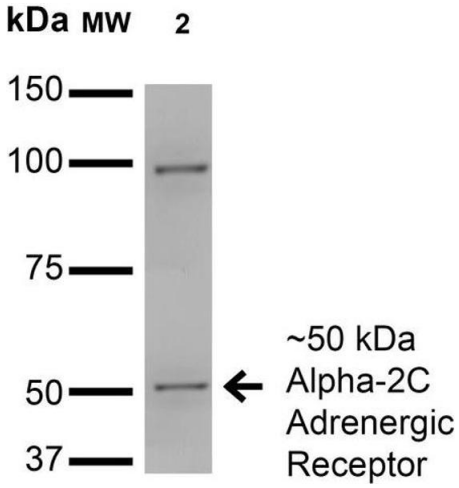
Handling

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
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



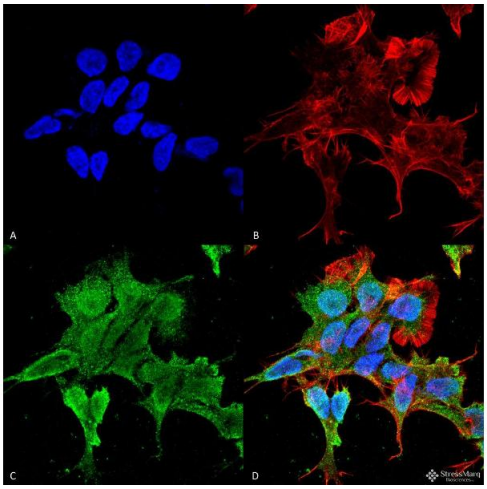
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Alpha-2C Adrenergic Receptor Monoclonal Antibody, Clone S330A-80 (ABIN2485199). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Alpha-2C Adrenergic Receptor Monoclonal Antibody (ABIN2485199) 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) Alpha-2C Adrenergic Receptor Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Monkey COS cells transfected with HA-tagged Alpha-2C showing detection of ~50 kDa Alpha-2C Adrenergic Receptor protein using Mouse Anti-Alpha-2C Adrenergic Receptor Monoclonal Antibody, Clone S330A-80 . Lane 1: Molecular Weight Ladder. Lane 2: Monkey COS cells transfected with HA-tagged Alpha-2C. Load: 15 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Alpha-2C Adrenergic Receptor Monoclonal Antibody at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~50 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Alpha-2C Adrenergic Receptor Monoclonal Antibody, Clone S330A-80 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Alpha-2C Adrenergic Receptor 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, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Alpha-2C Adrenergic Receptor Antibody (D) Composite.