Datasheet for ABIN2483289

anti-Stargazin antibody (AA 203-323) (PE)

3 Images

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Overview

Quantity:	100 µg
Target:	Stargazin (CACNG2)
Binding Specificity:	AA 203-323
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Stargazin antibody is conjugated to PE
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 203-323 (Cytoplasmic C-terminus) of rat TARPGamma2
Clone:	S245-36
Isotype:	IgG2a
Specificity:	Detects ~35-55 kDa. Does not cross-react with TARPGamma3.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	Stargazin (CACNG2)
Alternative Name:	Stargazin (CACNG2 Products)

Target Details

Background:	Stargazin belongs to a group called voltage gated calcium channels (VGCCs) which are present in most excitable cells. Stargazin is thought to stabilize the calcium channel in an inactivated (closed) state. There are five high voltage activated calcium channel types (L, N, P, Q, and R) and one low voltage activated channel type (T). Each of these channels exists as a heteromultimer of a1, b, a2/ d and g subunits with the voltage activated calcium channel function carried by the a subunits. VGCCs exert spatial and temporal control over cellular calcium concentrations and serve to modulate neurotransmitter release, hormone secretion, muscle contraction, electrical activity, cell metabolism and proliferation, gene expression, and neuronal survival.
Gene ID:	84347
NCBI Accession:	NP_445803
UniProt:	Q71RJ2
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2483289 was sufficient for detection of TARP Gamma2/4/8 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

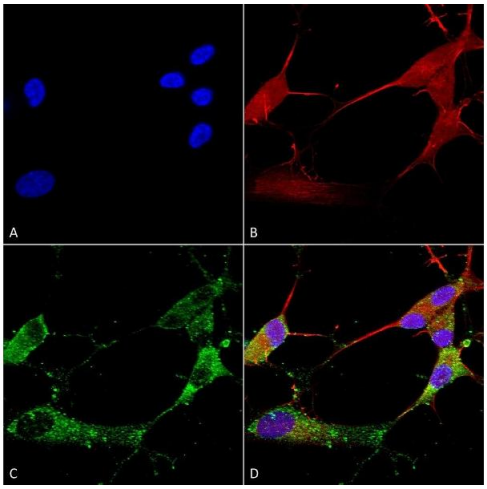
Handling

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

Handling

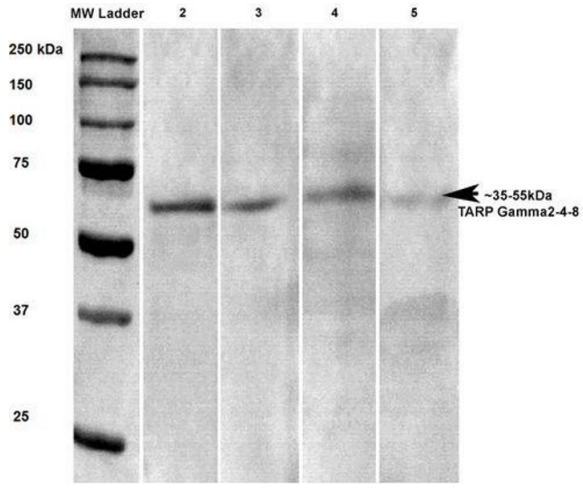
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



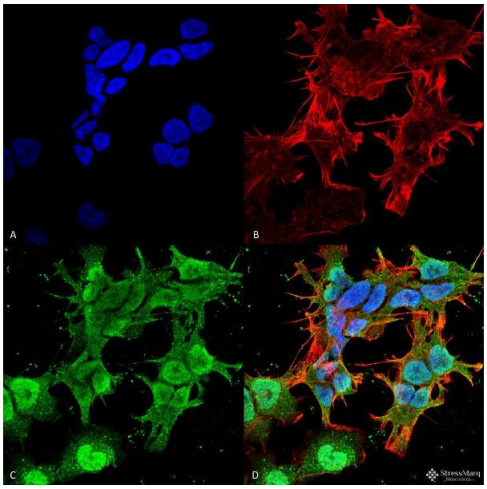
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TARP Gamma2/4/8 (Stargazin) Monoclonal Antibody, Clone S245-36 (ABIN2483289). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-TARP Gamma2/4/8 (Stargazin) Monoclonal Antibody (ABIN2483289) 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) TARP Gamma2/4/8 (Stargazin) Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat brain lysates showing detection of Stargazin Calcium Channel protein using Mouse Anti-Stargazin Calcium Channel Monoclonal Antibody, Clone S245-36 . Primary Antibody: Mouse Anti-Stargazin Calcium Channel Monoclonal Antibody at 1:100, 1:250, 1:500, and 1:1000.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TARP Gamma2/4/8 (Stargazin) Monoclonal Antibody, Clone S245-36 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-TARP Gamma2/4/8 (Stargazin) 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) TARP Gamma2/4/8 (Stargazin) Antibody (D) Composite.