Datasheet for ABIN2482860

anti-CACNA1H antibody (AA 1019-1293) (FITC)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	CACNA1H
Binding Specificity:	AA 1019-1293
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CACNA1H antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 1019-1293 (II-III loop) of human Cav3.2
Clone:	N55-10 (Formerly S55-10)
Isotype:	IgG1
Specificity:	Detects ~260 kDa. No cross-reactivity against Cav1.3.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	CACNA1H

Target Details

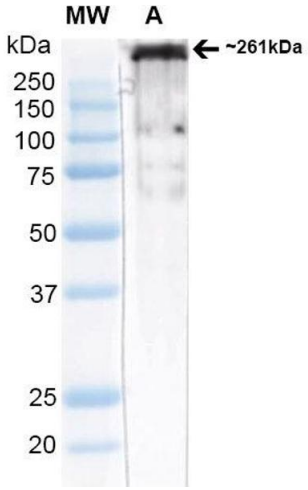
Alternative Name:	Cav3.2 (CACNA1H Products)
Background:	CaV3.2 is a protein which in humans is encoded by the CACNA1H gene. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (1, 2). Studies also suggest that the up-regulations of CaV3.2 may participate in the progression of prostate cancer toward an androgen-independent stage (3).
Gene ID:	8912
NCBI Accession:	NP_001005407
UniProt:	O95180
Pathways:	C21-Steroid Hormone Metabolic Process

Application Details

Application Notes:	• WB (1:1000) • IHC (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2482860 was sufficient for detection of Cav3.2 in 10 µg of HEK cell lysate expressing Cav3.2 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

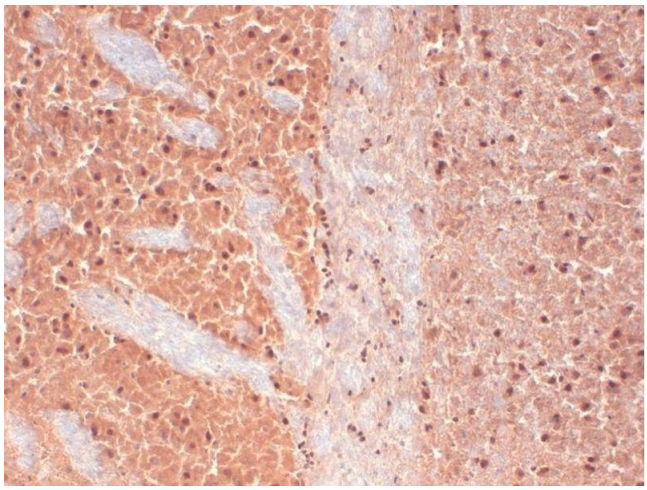
Handling

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



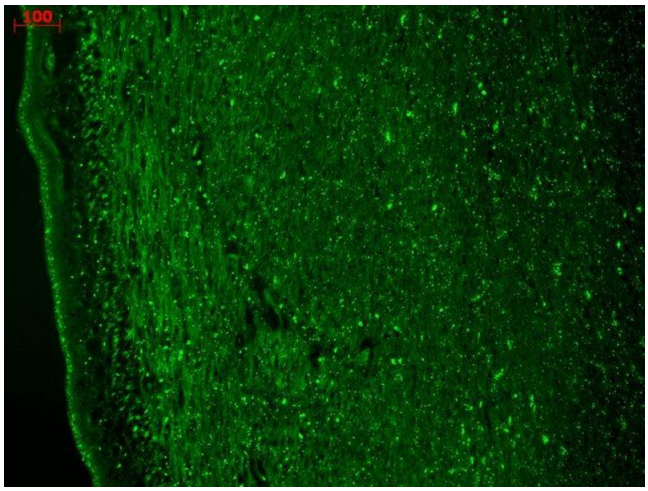
Western Blotting

Image 1. Western Blot analysis of Rat brain membrane lysate (native) showing detection of ~261 kDa Cav3.2 protein using Mouse Anti-Cav3.2 Monoclonal Antibody, Clone N55/10 (ABIN2482860). Block: 2 % Skim Milk + 2 % BSA in TBST. Primary Antibody: Mouse Anti-Cav3.2 Monoclonal Antibody (ABIN2482860) at 1:1000 for 2 hours at RT. Secondary Antibody: Anti-Mouse: HRP at 1:4000. Predicted/Observed Size: ~261 kDa.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody, Clone S55-10 . Tissue: frozen brain section. Species: human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody, Clone S55-10 . Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.