Datasheet for ABIN2485038

anti-CACNB2 antibody (AA 189-205) (Biotin)

5 Images

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Overview

Quantity:	100 µg
Target:	CACNB2
Binding Specificity:	AA 189-205
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CACNB2 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Synthetic peptide amino acids 189-205 of rat CavBeta2
Clone:	N8b-1 (Formerly S8B-1)
Isotype:	IgG1
Specificity:	Detects ~78 kDa. No cross reactivity against Cavβ1, Cavβ3, Cavβ4.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	CACNB2

Target Details

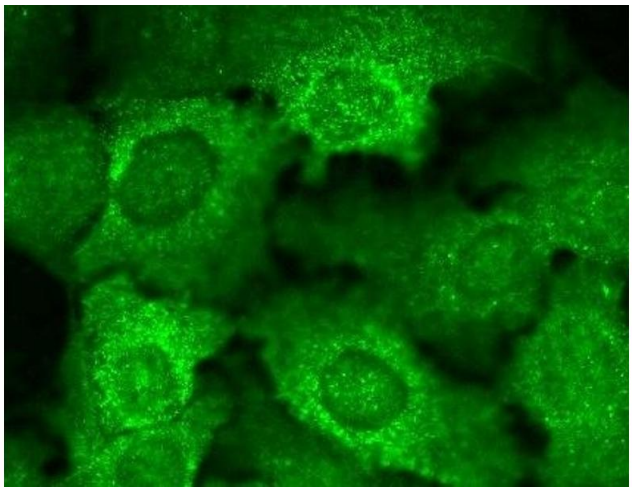
Alternative Name:	CavBeta2 (CACNB2 Products)
Background:	Cav Beat subunits are involved in the transport of the pore forming alpha1 subunit to the plasma membrane (1). They also shield an ER Retention signal on the alpha1 subunit, thereby guiding the pore-forming subunit to the target membrane (2, 3). They also determine the biophysical properties of the calcium channel (3).
Gene ID:	116600
NCBI Accession:	NP_446303
UniProt:	Q8VGC3
Pathways:	Skeletal Muscle Fiber Development

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 ABIN2485038 was sufficient for detection of Cavβ2 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody
Restrictions:	For Research Use only

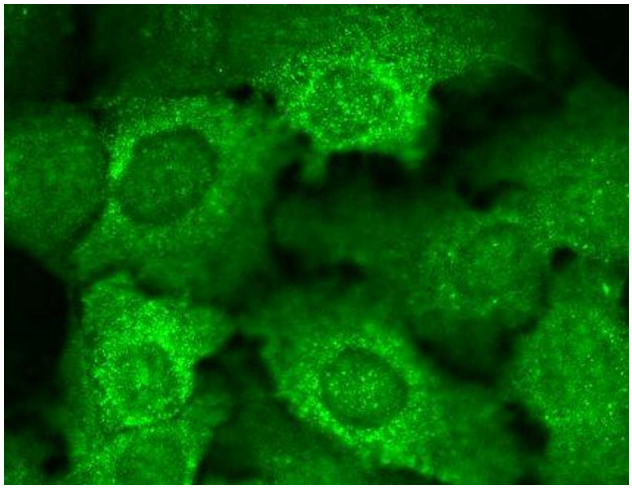
Handling

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



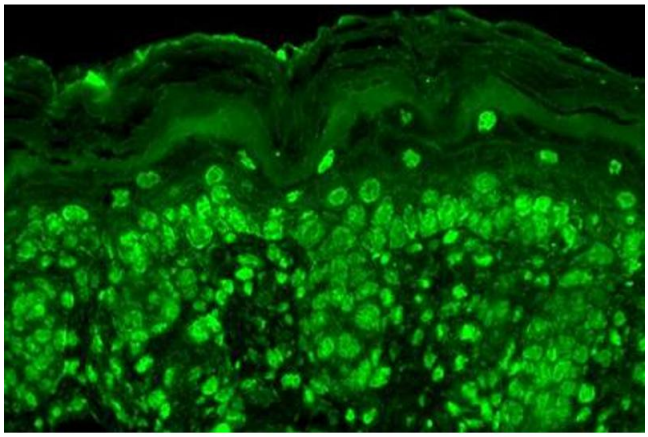
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 (ABIN2485038). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100 % methanol for 10 minutes at -20 °C. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody (ABIN2485038) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: All cells positive. Bright dottiness located throughout cytoplasm and in nuclei.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: All cells positive. Bright dottiness located throughout cytoplasm and in nuclei.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: All nuclei. Some nuclei also staining higher up in epidermis.

Please check the product details page for more images. Overall 5 images are available for ABIN2485038.