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Datasheet for ABIN7043006

anti-CACNA1A antibody (Intracellular)

2 Images

Overview

Quantity:	25 µL
Target:	CACNA1A
Binding Specificity:	AA 865-881, Intracellular
Reactivity:	Rat, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)PSSPERAPGREGPYGRE, corresponding to amino acid residues 865-881 of rat CACNA1A
Isotype:	IgG
Characteristics:	Anti-CACNA1A (CaV2.1) Antibody (ABIN7043006, ABIN7043949 and ABIN7043950)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize CaV2.1 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

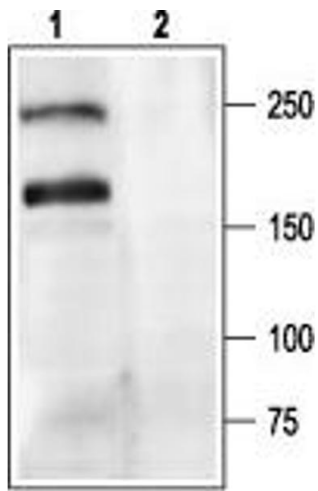
Target:	CACNA1A
Alternative Name:	CACNA1A (CaV2.1) (CACNA1A Products)
Background:	Alternative names: CACNA1A (CaV2.1), Voltage-dependent P/Q-type calcium channel subunit alpha1A, Brain calcium channel I, BI
Gene ID:	25398
NCBI Accession:	NM_000068
UniProt:	P54282
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

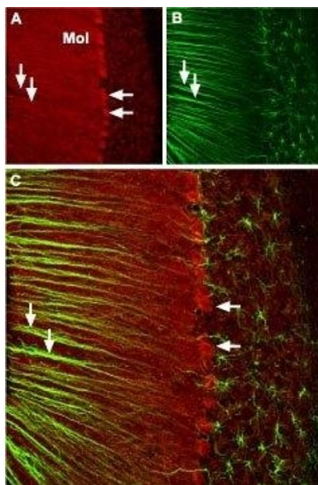
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
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:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Western Blotting

Image 1. Western blot analysis of rat brain membranes: - 1. Anti-CACNA1A (CaV2.1) Antibody (ABIN7043006, ABIN7043949 and ABIN7043950), (1:200). 2. Anti-CACNA1A (CaV2.1) Antibody, preincubated with CACNA1A/Cav2.1 Blocking Peptide (#BLP-CC001).



Immunohistochemistry

Image 2. Expression of CACNA1A in mouse cerebellum - Immunohistochemical staining of mouse cerebellum with Anti-CACNA1A (CaV2.1) Antibody (ABIN7043006, ABIN7043949 and ABIN7043950), (1:100). A. CACNA1A channel (red) appears in Purkinje cells (horizontal arrows) and is distributed diffusely in the molecular layer (Mol) including in astrocytic fibers (vertical arrows). B. Staining of astrocytic fibers with glial fibrillary acidic protein in the section demonstrates the location of astrocytic fibers in the molecular layer. C. Merged image of panels A and B.