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Datasheet for ABIN1386090

anti-CACNA2D1 antibody (AA 571-610)

2 Publications

Overview

Quantity:	100 µL
Target:	CACNA2D1
Binding Specificity:	AA 571-610
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA2D1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CACNA2/CACNA2D1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CACNA2D1
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Target Details

Alternative Name: CACNA2/CACNA2D1 ([CACNA2D1 Products](#))

Background: Synonyms: Calcium channel L type DHPR alpha 2 subunit, CA2D1_HUMAN, CACN A2, CACNA2, CACNA2D1, CACNL2A, Calcium channel L type alpha 2 polypeptide, Calcium channel voltage dependent alpha 2/delta subunit 1, CCHL2A, Dihydropyridine receptor alpha 2 subunit, Dihydropyridine sensitive L type calcium channel alpha 2/delta subunit, Dihydropyridine sensitive L type calcium channel subunits alpha 2/delta, H_DJ0560014.1, L type calcium channel subunit alpha 2, MHS 3, MHS3, Voltage dependent calcium channel subunit alpha 2/delta 1, Voltage gated calcium channel subunit alpha 2/delta 1, Voltage-dependent calcium channel subunit delta-1, Voltage-gated calcium channel subunit alpha-2/delta-1, WUGSC:H_DJ0560014.1.

Background: Voltage-dependent calcium channels are essential for the release of neurotransmitters. Cacna2d1 (calcium channel, voltage-dependent, alpha 2/delta subunit 1), also known as CACNA2, CCHL2A, MHS3 or CACNL2A, is a 1,091 amino acid single-pass type I membrane protein that contains one VWFA domain and one cache domain. Expressed in skeletal muscle, aorta tissues and in the central nervous system (CNS), Cacna2d1 functions as an alpha-2/delta subunit of voltage-dependent calcium channels and plays an important role in calcium current density, as well as in excitation-contraction coupling. The Cacna2d1 precursor is proteolytically processed to produce two functional subunits, designated alpha-2-1 and delta-1, which are disulfide-linked to one another.

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
ICC 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in: Chintalapudi, Maria, Di Wang, Bailey, Hysi, Wiggs, Williams, Jablonski: "Systems genetics identifies a role for Cacna2d1 regulation in elevated intraocular pressure and glaucoma susceptibility." in: **Nature communications**, Vol. 8, Issue 1, pp. 1755, (2018) ([PubMed](#)).