Datasheet for ABIN3042544

anti-CACNA1D antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	CACNA1D
Binding Specificity:	AA 2146-2161, C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1D antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Voltage-dependent L-type calcium channel subunit alpha-1D(CACNA1D) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CaV1.3(2146-2161aa RDEEDLADEMICITTL), different from the related mouse and rat sequences by one amino acid.
Sequence:	RDEEDLADEM ICITTL
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human, mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

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Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Voltage-dependent L-type calcium channel subunit alpha-1D(CACNA1D) detection. Tested with WB in Human,Mouse,Rat. Gene Name: calcium channel, voltage-dependent, L type, alpha 1D subunit Protein Name: Voltage-dependent L-type calcium channel subunit alpha-1D
Purification:	Immunogen affinity purified.

Target Details

Target:	CACNA1D
Alternative Name:	CACNA1D (CACNA1D Products)
Background:	Cav1.3, also known as the calcium channel, voltage-dependent, L type, alpha 1D subunit(CACNA1D), is a human gene. It is mapped to 3p21.1. Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Alpha-1D subunit can mediate DHP-sensitive, high voltage-activated, long-lasting calcium channel activity. CACNA1D can form L-type calcium channels with negative activation thresholds which is essential for normal auditory function and controling of cardiac pacemaker activity. Synonyms: alpha-1 polypeptide antibody|CAC1D_HUMAN antibody|CACH3 antibody|CACN4 antibody|CACNA 1D antibody|CACNA1D antibody|CACNL1A2 antibody|Calcium channel antibody|Calcium channel L type alpha 1 polypeptide isoform 2 antibody|Calcium channel neuroendocrine/brain type alpha 1 subunit antibody|Calcium channel voltage dependent L type alpha 1 antibody|Calcium channel voltage dependent L type alpha 1D subunit antibody|Cav1.3 antibody|CCHL1A2 antibody|isoform 2 antibody|L type antibody|PASNA antibody|SANDD antibody|Voltage dependent L type calcium channel subunit alpha 1D antibody|Voltage gated calcium channel alpha 1 subunit antibody|Voltage gated calcium channel alpha subunit Cav1.3 antibody|Voltage gated calcium channel subunit alpha Cav1.3 antibody|Voltage-dependent L-type calcium channel subunit alpha-1D antibody|Voltage-gated calcium channel subunit alpha Cav1.3 antibody
UniProt:	Q01668
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Zhang, Wu: "Fasudil inhibits proliferation and migration of Hep-2 laryngeal carcinoma cells." in: **Drug design, development and therapy**, Vol. 12, pp. 373-381, (2018) (PubMed). Zhou, Wu, Ma, Xiao, Yu, Yang, Xu, Zhang, Zhou, Ye, Wang: "Attenuation of TGFBR2 expression and tumour progression in prostate cancer involve diverse hypoxia-regulated pathways." in: **Journal of experimental & clinical cancer research : CR**, Vol. 37, Issue 1, pp. 89, (2018) (PubMed).

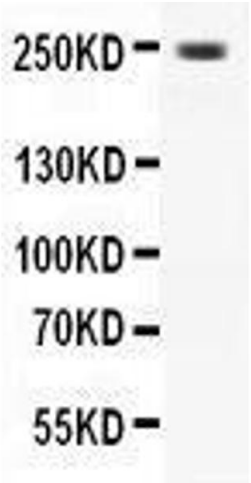
Publications

Schwartz, Bochkariov: "Novel chemiluminescent Western blot blocking and antibody incubation solution for enhanced antibody-antigen interaction and increased specificity." in: **Electrophoresis**, Vol. 38, Issue 20, pp. 2631-2637, (2017) (PubMed).

Zuo, Liu, Zhang, Wu, Guo, Liao: "Development of trastuzumab-resistant human gastric carcinoma cell lines and mechanisms of drug resistance." in: **Scientific reports**, Vol. 5, pp. 11634, (2015) (PubMed).

Chen, Bao, Zhou, Wang, Wei, Fan: "Glucose transporter-1 expression in CD133+ laryngeal carcinoma Hep-2 cells." in: **Molecular medicine reports**, Vol. 8, Issue 6, pp. 1695-700, (2013) (PubMed).

Images



Western Blotting

Image 1.