

Anti-CaV1.3 Antibody

Catalog # ABO11601

Product Information

Application	WB
Primary Accession	Q01668
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Voltage-dependent L-type calcium channel subunit alpha-1D(CACNA1D) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	776
Other Names	Voltage-dependent L-type calcium channel subunit alpha-1D, Calcium channel, L type, alpha-1 polypeptide, isoform 2, Voltage-gated calcium channel subunit alpha Cav1.3, CACNA1D, CACH3, CACN4, CACNL1A2, CCHL1A2
Calculated MW	245141
Application Details	Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse
Subcellular Localization	Membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in pancreatic islets and in brain, where it has been seen in cerebral cortex, hippocampus, basal ganglia, habenula and thalamus. Expressed in the small cell lung carcinoma cell line SCC-9. No expression in skeletal muscle. .
Source	Eukaryota
Protein Name	Voltage-dependent L-type calcium channel subunit alpha-1D
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N.
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.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, 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.

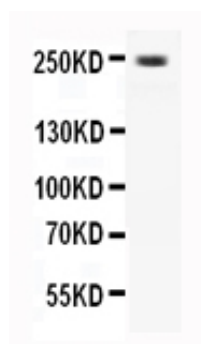
Protein Information

Name	CACNA1D
Synonyms	CACH3, CACN4, CACNL1A2, CCHL1A2
Function	Voltage-sensitive calcium channels (VSCC) 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, gene expression, cell motility, cell division and cell death. The isoform alpha-1D gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, and by benzothiazepines.
Cellular Location	Membrane; Multi- pass membrane protein
Tissue Location	Expressed in pancreatic islets and in brain, where it has been seen in cerebral cortex, hippocampus, basal ganglia, habenula and thalamus. Expressed in the small cell lung carcinoma cell line SCC-9. No expression in skeletal muscle

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 controlling of cardiac pacemaker activity.

Images



Anti-CaV1.3 antibody, ABO11601, All Western blottingAll lanes: Anti-CACNA1D(ABO11601) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 40ugPredicted bind size: 245KDObserved bind size: 245KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.