

Rabbit CACNA1B Polyclonal Antibody | anti-CACNA1B antibody

CACNA1B Antibody

CATALOG # AAA328795	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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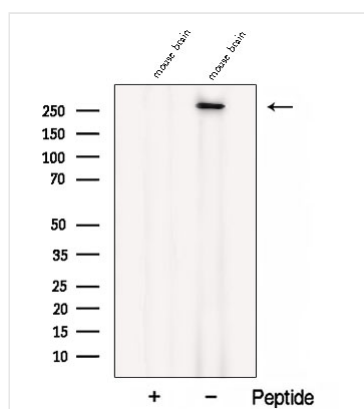
PRODUCT SYNONYMS

CACNA1B; Polyclonal Antibody; CACNA1B Antibody; BIII; Brain calcium channel III; CACH5; CACNA1B (N type); CACNL1A5; CACNN; Calcium channel alpha12.2 subunit; Calcium channel L type alpha 1 polypeptide isoform 5; Calcium channel L type; alpha 1 polypeptide; Calcium channel N type; Calcium channel voltage dependent alpha 1B subunit N type; Calcium channel voltage dependent L type alpha 1B subunit; Calcium channel voltage dependent N type alpha 1B subunit; Cav2.2; Cav2.2 voltage gated Ca²⁺ channel; Voltage dependent N type calcium channel subunit alpha 1B; Voltage gated calcium channel alpha subunit Cav2.2; anti-CACNA1B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CACNA1B Antibody detects endogenous levels of CACNA1B.
Purity/Purification	Peptide affinity purification
Form/Format	Phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	2339
Applicable Applications for anti-CACNA1B antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human CACNA1B, corresponding to a region within N-terminal amino acids.
Preparation and Storage	Store at -20°C.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from Mouse brain tissue, using CACNA1B Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1B antibody	Description: 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-1B gives rise to N-type calcium currents. N-type calcium channels belong to the 'high-voltage activated' (HVA) group and are blocked by omega-conotoxin-GVIA (omega-CTx-GVIA) and by omega-agatoxin-IIIa (omega-Aga-IIIa). They are however insensitive to dihydropyridines (DHP), and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels containing alpha-1B subunit may play a role in directed migration of immature neurons. Post Translational Modifications: Phosphorylated in vitro by CaM-kinase II, PKA, PKC and CGPK. Subunit Structure: Multisubunit complex consisting of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The channel activity is directed by the pore-forming and voltage-sensitive alpha-1 subunit. In many cases, this subunit is sufficient to generate voltage-sensitive calcium channel activity. The auxiliary subunits beta and alpha-2/delta linked by a disulfide bridge regulate the channel activity. Interacts with RIMS1. Interacts with FMR1 (via C-terminus); this interaction induces a decrease in the number of presynaptic functional CACNA1B channels at the cell surface. Similarity: Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position. Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. CACNA1B subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502523
NCBI GeneID	774
NCBI Accession #	NP_000709
NCBI GenBank Nucleotide #	NP_000709.1
UniProt Accession #	Q00975
Molecular Weight	262 kDa
NCBI Official Full Name	voltage-dependent N-type calcium channel subunit alpha-1B isoform 1
NCBI Official Synonym Full Names	calcium voltage-gated channel subunit alpha1 B
NCBI Official Symbol	CACNA1B
NCBI Official Synonym Symbols	BIII; CACNN; DYT23; Cav2.2; NEDNEH; CACNL1A5
NCBI Protein Information	voltage-dependent N-type calcium channel subunit alpha-1B
UniProt Protein Name	Voltage-dependent N-type calcium channel subunit alpha-1B
UniProt Gene Name	CACNA1B
UniProt Synonym Gene Names	CACH5; CACNL1A5; BIII
UniProt Entry Name	CAC1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.