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CACNB3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17493b

Product Information

Application	WB, E
Primary Accession	P54284
Other Accession	P54287, P54286, P54285, NP_000716.2
Reactivity	Human
Predicted	Mouse, Rabbit, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37552
Calculated MW	54532
Antigen Region	407-434

Additional Information

Gene ID	784
Other Names	Voltage-dependent L-type calcium channel subunit beta-3, CAB3, Calcium channel voltage-dependent subunit beta 3, CACNB3, CACNLB3
Target/Specificity	This CACNB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 407-434 amino acids from the C-terminal region of human CACNB3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CACNB3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CACNB3
Synonyms	CACNLB3 {ECO:0000303|PubMed:7557998}

Function	Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents (PubMed:8119293). Increases CACNA1B peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity). Increases CACNA1C peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	Expressed mostly in brain, colon and ovary.

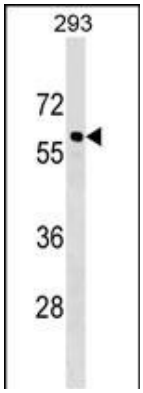
Background

The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.

References

Zhang, Y., et al. J. Biol. Chem. 285(4):2527-2536(2010)
Bernardo, J.F., et al. Can. J. Physiol. Pharmacol. 87(7):522-530(2009)
Voss, M., et al. BMC Immunol. 10, 53 (2009) :
Rikova, K., et al. Cell 131(6):1190-1203(2007)
Vendel, A.C., et al. J. Neurosci. 26(10):2635-2644(2006)

Images



CACNB3 Antibody (C-term) (Cat. #AP17493b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the CACNB3 antibody detected the CACNB3 protein (arrow).