

CaVα2δ3 Polyclonal Antibody

Catalog No :	YN5636
Reactivity :	Human;Rat;Mouse
Applications :	WB
Target :	CaVα2δ3
Fields :	>>MAPK signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Oxytocin signaling pathway;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy
Gene Name :	CACNA2D3
Protein Name :	Voltage-dependent calcium channel subunit alpha-2/delta-3 (Voltage-gated calcium channel subunit alpha-2/delta-3) [Cleaved into: Voltage-dependent calcium channel subunit alpha-2-3; Voltage-dependent
Human Gene Id :	55799
Human Swiss Prot	Q8IZS8
No : Mouse Swiss Prot	Q9Z1L5
No : Rat Swiss Prot No :	Q8CFG5
Immunogen :	Synthetic Peptide of CaVα2δ3 AA range: 500-580
Specificity :	CaVa2 δ 3 protein(A210) detects endogenous levels of CaVa2 δ 3
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-



chromatography using epitope-specific immunogen.

Concentration :	1 ma/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	120kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;
Background :	calcium voltage-gated channel auxiliary subunit alpha2delta 3(CACNA2D3) Homo sapiens This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008],
Function :	domain:The MIDAS-like motif in the VWFA domain binds divalent metal cations and is required to promote trafficking of the alpha-1 (CACNA1) subunit to the plasma membrane by an integrin-like switch.,function:The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) but not T-type (CACNA1G).,miscellaneous:In contrast to CACNA2D1 and CACNA2D2, it does not bind gabapentin, an antiepileptic drug.,PTM:May be proteolytically processed into subunits alpha-2-3 and delta-3 that are disulfide-linked. It is however unclear whether such cleavage really takes place in vivo and has a functional role.,PTM:N- glycosylated.,similarity:Belongs to the calcium channel subunit alpha-2/delta family.
Subcellular	Membrane ; Single-pass type I membrane protein .
Location : Expression :	Only detected in brain. Not present in lung, testis, aorta, spleen, jejunum, ventricular muscle and kidney (at protein level). According to PubMed:11687876, it is brain-specific, while according to PubMed:11245980, it is widely expressed.

Products Images



	mouse	human
	brain	brain
170KD	-	
130KD	-	-
95KD	776	-
70KD	-	-
55KD		

Western blot analysis of 1) Mouse Brain Tissue, 2)Human Brain Tissue, with CaVa2 δ 3 Rabbit pAb diluted at 1:2,000.