Best Tools for immunology Research

CACNB3 Polyclonal Antibody

Catalog No :	YN5653
Reactivity :	Mouse;Rat
Applications :	WB;IHC;IF
Target :	CACNB3
Fields :	>>MAPK signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Oxytocin signaling pathway;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy
Gene Name :	CACNB3
Protein Name :	Voltage-dependent L-type calcium channel subunit beta-3
Human Gene Id :	784
Human Swiss Prot No :	P54284
Mouse Swiss Prot No :	P54285
Rat Swiss Prot No :	P54287
Immunogen :	Synthetic Peptide of CACNB3
Specificity :	The antibody detects endogenous CACNB3 protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-1000 IHC 1:200-500. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 50kD

Cell Pathway : MAPK_ERK_Growth;MAPK_G_Protein;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;

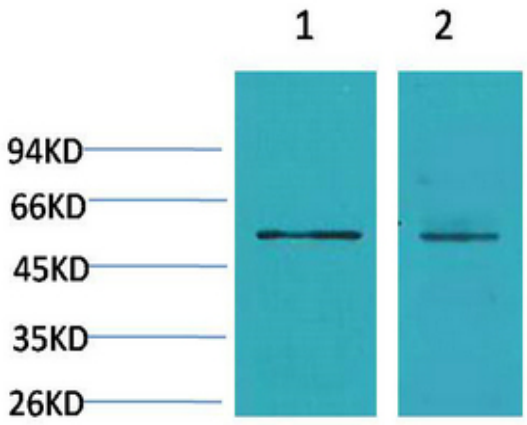
Background : This gene encodes a regulatory beta subunit of the voltage-dependent calcium channel. Beta subunits are composed of five domains, which contribute to the regulation of surface expression and gating of calcium channels and may also play a role in the regulation of transcription factors and calcium transport. [provided by RefSeq, Oct 2011],

Function : function: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.,similarity:Belongs to the calcium channel beta subunit family.,similarity:Contains 1 SH3 domain.,subunit:The L-type calcium channel is composed of four subunits: alpha-1, alpha-2, beta and gamma. Interacts with CACNA2D4.,tissue specificity:Expressed mostly in brain, smooth muscle and ovary.,

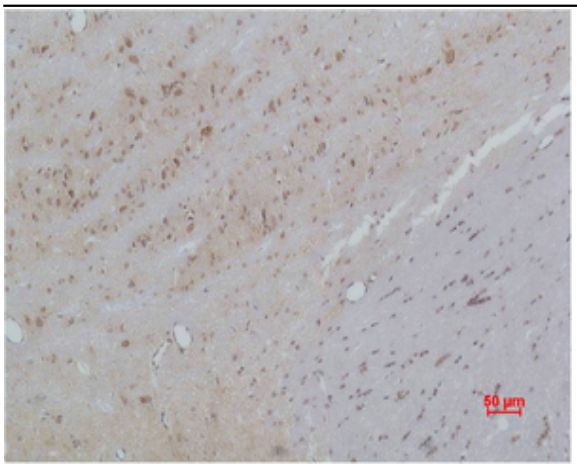
Subcellular Location : Cytoplasm .

Expression : Expressed mostly in brain, colon and ovary.

Products Images



Western blot analysis of 1) Mouse Brain Tissue, 2) Rat Brain Tissue using CACNB3 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using CACNB3 Polyclonal Antibody.