

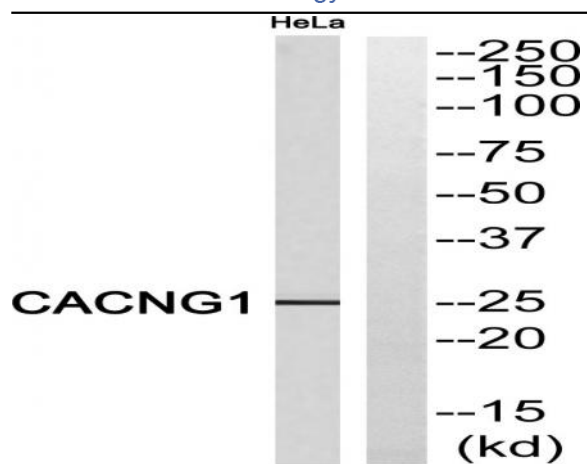
## L-type Ca<sup>++</sup> CP $\gamma$ 1 Polyclonal Antibody

<b>Catalog No :</b>	YT2599
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	L-type Ca <sup>++</sup> CP $\gamma$ 1
<b>Fields :</b>	>>MAPK signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Oxytocin signaling pathway;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy
<b>Gene Name :</b>	CACNG1
<b>Protein Name :</b>	Voltage-dependent calcium channel gamma-1 subunit
<b>Human Gene Id :</b>	786
<b>Human Swiss Prot No :</b>	Q06432
<b>Mouse Gene Id :</b>	12299
<b>Mouse Swiss Prot No :</b>	O70578
<b>Rat Gene Id :</b>	29658
<b>Rat Swiss Prot No :</b>	P97707
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CACNG1. AA range:137-186
<b>Specificity :</b>	L-type Ca <sup>++</sup> CP $\gamma$ 1 Polyclonal Antibody detects endogenous levels of L-type Ca <sup>++</sup> CP $\gamma$ 1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

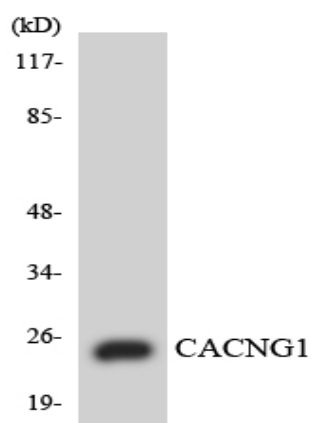
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<b>Dilution :</b>	<u>WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.</u>
<b>Purification :</b>	<u>The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.</u>
<b>Concentration :</b>	<u>1 mg/ml</u>
<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Observed Band :</b>	<u>25kD</u>
<b>Cell Pathway :</b>	<u>MAPK_ERK_Growth;MAPK_G_Protein;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;</u>
<b>Background :</b>	<u>calcium voltage-gated channel auxiliary subunit gamma 1(CACNG1) Homo sapiens Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is part of skeletal muscle 1,4-dihydropyridine-sensitive calcium channels and is an integral membrane protein that plays a role in excitation-contraction coupling. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members that function as transmembrane AMPA receptor regulatory proteins (TARPs). [provided by RefSeq, Dec 2010],</u>
<b>Function :</b>	<u>function:This protein is a subunit of the dihydropyridine (DHP) sensitive calcium channel. Plays a role in excitation-contraction coupling. The skeletal muscle DHP-sensitive Ca(2+) channel may function only as a multiple subunit complex.,similarity:Belongs to the PMP-22/EMP/MP20 family. CACNG subfamily.,subunit:The L-type calcium channel is composed of five subunits: alpha-1, alpha-2/delta, beta and gamma.,tissue specificity:Skeletal muscle.,</u>
<b>Subcellular Location :</b>	<u>Cell membrane, sarcolemma ; Multi-pass membrane protein .</u>
<b>Expression :</b>	<u>Skeletal muscle.</u>

## Products Images



Western blot analysis of CACNG1 Antibody. The lane on the right is blocked with the CACNG1 peptide.



Western blot analysis of the lysates from COLO205 cells using CACNG1 antibody.