



# L-type $\text{Ca}^{++}$ CP $\gamma$ 1 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-16461
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	CACNG1
<b>Protein Name</b>	Voltage-dependent calcium channel gamma-1 subunit
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CACNG1. AA range:137-186
<b>Specificity</b>	L-type $\text{Ca}^{++}$ CP $\gamma$ 1 Monoclonal Antibody detects endogenous levels of L-type $\text{Ca}^{++}$ CP $\gamma$ 1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	$-20^{\circ}\text{C}/1$ year
<b>Synonyms</b>	CACNG1; CACNLG; Voltage-dependent calcium channel gamma-1 subunit; Dihydropyridine-sensitive L-type; skeletal muscle calcium channel subunit gamma
<b>Observed Band</b>	25kD
<b>Cell Pathway</b>	Cell membrane, sarcolemma ; Multi-pass membrane protein .
<b>Tissue Specificity</b>	Skeletal muscle.
<b>Function</b>	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 $\text{Ca}(2+)$ 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.,
<b>Background</b>	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],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

