

## CACNG1 polyclonal antibody

Catalog: BS5785

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Voltage-dependent calcium channels are essential for the release of neurotransmitters. L-type (long lasting current) voltage-dependent calcium channels are composed of four subunits: an  $\alpha 1$  subunit, a  $\beta$  subunit, a  $\gamma$  subunit and an  $\alpha 2\delta$  subunit. The  $\beta$  subunit is encoded by four genes, designated  $\beta 1$ - $\beta 4$ , all of which contribute to the diversity of calcium currents and are involved in membrane trafficking of the  $\alpha 1$  subunit. L-type  $\text{Ca}^{++}$  CP  $\gamma 1$ , also known as CACNLG or CACNG1, is a 222 amino acid multi-pass membrane protein belonging to the PMP-22/EMP/MP20 family. Expressed in skeletal muscle, L-type  $\text{Ca}^{++}$  CP  $\gamma 1$  is a subunit of the dihydropyridine (DHP) sensitive calcium channel and may play a role in excitation-contraction coupling. L-type  $\text{Ca}^{++}$  CP  $\gamma 1$  is considered a novel marker for malignant hyperthermia susceptibility (MHS), an autosomal dominant disorder of skeletal muscle which manifests as a life-threatening hypermetabolic crisis triggered by commonly used inhalation anaesthetics and depolarizing muscle relaxants.

### Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

### Molecular Weight:

~ 25 kDa

### Swiss-Prot:

Q06432

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

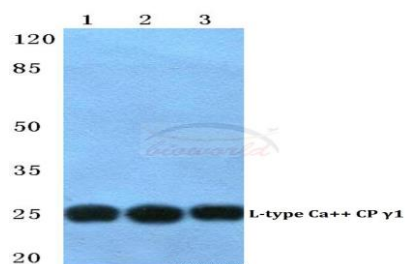
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

CACNG1 polyclonal antibody detects endogenous levels of CACNG1 protein.

### DATA:



Western blot (WB) analysis of CACNG1 polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate

Lane2:sp2/0 cell lysate

Lane3:H9C2 cell lysate

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151