

**CACNG4 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12867c****Specification**

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**CACNG4 Antibody (Center) Blocking peptide - Product Information**Primary Accession [O9UBN1](#)**CACNG4 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 27092**Other Names**

Voltage-dependent calcium channel gamma-4 subunit, Neuronal voltage-gated calcium channel gamma-4 subunit, Transmembrane AMPAR regulatory protein gamma-4, TARP gamma-4, CACNG4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CACNG4 Antibody (Center) Blocking peptide - Protein Information****Name** CACNG4**Function**

Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (PubMed:&lt;a href="http://www.uniprot.org/citations/21127204" target="\_blank"&gt;21127204&lt;/a&gt;). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA receptors), including GRIA1 and GRIA4. Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization and by mediating their resensitization (PubMed:&lt;a href="http://www.uniprot.org/citations/21172611" target="\_blank"&gt;21172611&lt;/a&gt;).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Detected in heart left ventricle.

**CACNG4 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **CACNG4 Antibody (Center) Blocking peptide - Images**

#### **CACNG4 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene is a type I transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. 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, a type II TARP and a calcium channel gamma subunit.

#### **CACNG4 Antibody (Center) Blocking peptide - References**

Sager, C., et al. Neuroscience 158(1):45-54(2009) Chen, R.S., et al. Cell Biochem. Biophys. 47(2):178-186(2007) Moss, F.J., et al. BMC Neurosci 4, 23 (2003) :Chu, P.J., et al. Gene 280 (1-2), 37-48 (2001) :Burgess, D.L., et al. Genomics 71(3):339-350(2001)