

**L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody**  
**Catalog # AP70783****Specification****L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P62955</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody - Additional Information****Gene ID** 59284**Other Names**

CACNG7; Voltage-dependent calcium channel gamma-7 subunit; Neuronal voltage-gated calcium channel gamma-7 subunit; Transmembrane AMPAR regulatory protein gamma-7; TARP gamma-7

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody - Protein Information****Name** CACNG7**Function**

Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (PubMed:<a href="http://www.uniprot.org/citations/21127204" target="\_blank">21127204</a>). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPARs). 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. Displays subunit-specific AMPA receptor regulation. Shows specificity only for GRIA1 and GRIA2 (PubMed:<a href="http://www.uniprot.org/citations/21172611" target="\_blank">21172611</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

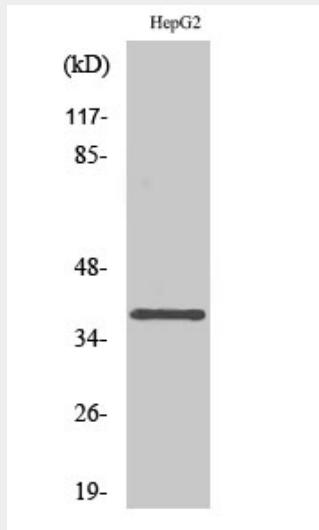
Detected in heart left ventricle (PubMed:21127204). Widely expressed.

## L-type Ca++ CP $\gamma$ 7 Polyclonal Antibody - Protocols

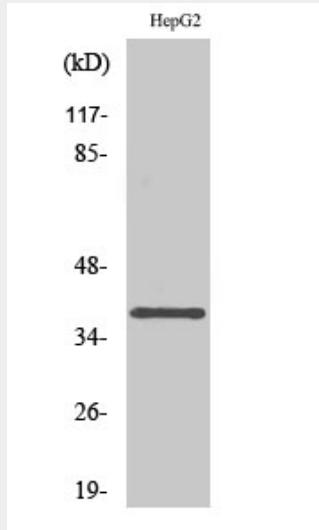
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## L-type Ca++ CP $\gamma$ 7 Polyclonal Antibody - Images



Western Blot analysis of various cells using L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of various cells using L-type Ca++ CP  $\gamma$ 7 Polyclonal Antibody diluted at 1:1000

**L-type Ca++ CP γ7 Polyclonal Antibody - Background**

Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (PubMed:21127204). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPARs). 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. Displays subunit-specific AMPA receptor regulation. Shows specificity only for GRIA1 and GRIA2 (PubMed:21172611).