

**CACNG3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18213A**

**Specification**

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**CACNG3 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O60359</a>
Other Accession	<a href="#">O8VHX0</a> , <a href="#">O9JIV5</a> , <a href="#">O4R589</a> , <a href="#">O0VD05</a> , <a href="#">NP_006530.1</a>
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35549
Antigen Region	28-56

**CACNG3 Antibody (N-term) - Additional Information**

**Gene ID** 10368

**Other Names**

Voltage-dependent calcium channel gamma-3 subunit, Neuronal voltage-gated calcium channel gamma-3 subunit, Transmembrane AMPAR regulatory protein gamma-3, TARP gamma-3, CACNG3

**Target/Specificity**

This CACNG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-56 amino acids from the N-terminal region of human CACNG3.

**Dilution**

WB~~1:1000  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CACNG3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CACNG3 Antibody (N-term) - Protein Information**

## Name CACNG3

**Function** Regulates the trafficking to the somatodendritic compartment and gating properties of AMPA-selective glutamate receptors (AMPA receptors). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. Thought to stabilize the calcium channel in an inactivated (closed) state.

## Cellular Location

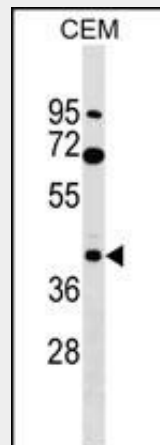
Membrane; Multi-pass membrane protein. Note=Displays a somatodendritic localization and is excluded from axons in neurons. {ECO:0000250|UniProtKB:Q9JJV5}

## CACNG3 Antibody (N-term) - 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](#)

## CACNG3 Antibody (N-term) - Images



CACNG3 Antibody (N-term) (Cat. #AP18213a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the CACNG3 antibody detected the CACNG3 protein (arrow).

## CACNG3 Antibody (N-term) - 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. This gene is a susceptibility locus for childhood absence epilepsy.

## CACNG3 Antibody (N-term) - References

Kato, A.S., et al. Trends Neurosci. 33(5):241-248(2010)  
Sager, C., et al. Neuroscience 158(1):45-54(2009)  
Everett, K.V., et al. Eur. J. Hum. Genet. 15(4):463-472(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Chen, R.S., et al. Cell Biochem. Biophys. 47(2):178-186(2007)