

**CACNG8 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11619A****Specification**

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**CACNG8 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q8WXS5</a>
Other Accession	<a href="#">Q8VHW5</a> , <a href="#">Q8VHW2</a> , <a href="#">NP_114101.4</a>
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43313
Antigen Region	90-119

**CACNG8 Antibody (N-term) - Additional Information****Gene ID** 59283**Other Names**

Voltage-dependent calcium channel gamma-8 subunit, Neuronal voltage-gated calcium channel gamma-8 subunit, Transmembrane AMPAR regulatory protein gamma-8, TARP gamma-8, CACNG8, CACNG6

**Target/Specificity**

This CACNG8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 90-119 amino acids from the N-terminal region of human CACNG8.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

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**

CACNG8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CACNG8 Antibody (N-term) - Protein Information**

**Name** CACNG8 ([HGNC:13628](#))

**Synonyms** CACNG6

**Function** Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (By similarity). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA-Rs). 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. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q8VHW2}; Multi-pass membrane protein. Postsynaptic density membrane {ECO:0000250|UniProtKB:Q8VHW2}

**Tissue Location**

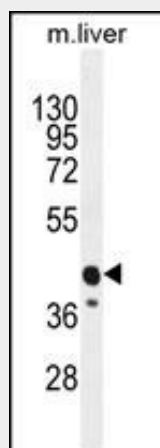
Detected in heart left ventricle.

**CACNG8 Antibody (N-term) - Protocols**

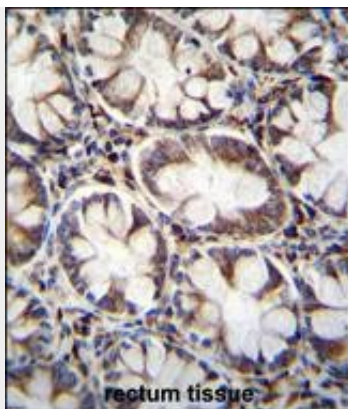
Provided below are standard protocols that you may find useful for product applications.

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

**CACNG8 Antibody (N-term) - Images**



CACNG8 Antibody (N-term) (Cat. #AP11619a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the CACNG8 antibody detected the CACNG8 protein (arrow).



CACNG8 Antibody (N-term) (Cat. #AP11619a) immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CACNG8 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **CACNG8 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 and is located in a cluster with two family members, a type II TARP and a calcium channel gamma subunit. The mRNA for this gene is believed to initiate translation from a non-AUG (CUG) start codon.

#### **CACNG8 Antibody (N-term) - References**

Sager, C., et al. Neuroscience 158(1):45-54(2009)  
Correia, S.S., et al. Nat. Neurosci. 11(4):457-466(2008)  
Chen, R.S., et al. Cell Biochem. Biophys. 47(2):178-186(2007)  
Chu, P.J., et al. Gene 280 (1-2), 37-48 (2001) :  
Burgess, D.L., et al. Genomics 71(3):339-350(2001)