

CACNG4 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12867c**Specification**

CACNG4 Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	O9UBN1
Other Accession	O8VHW9 , O9JJV4 , NP_055220.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36579
Antigen Region	147-175

CACNG4 Antibody (Center) - 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

Target/Specificity

This CACNG4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-175 amino acids from the Central region of human CACNG4.

Dilution

WB~~1:1000
FC~~1:10~50

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

CACNG4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CACNG4 Antibody (Center) - Protein Information**Name** CACNG4

Function 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 (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:[21172611](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

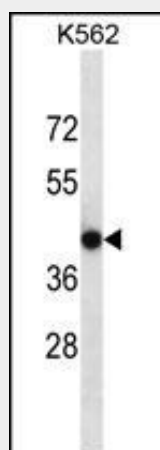
Detected in heart left ventricle.

CACNG4 Antibody (Center) - Protocols

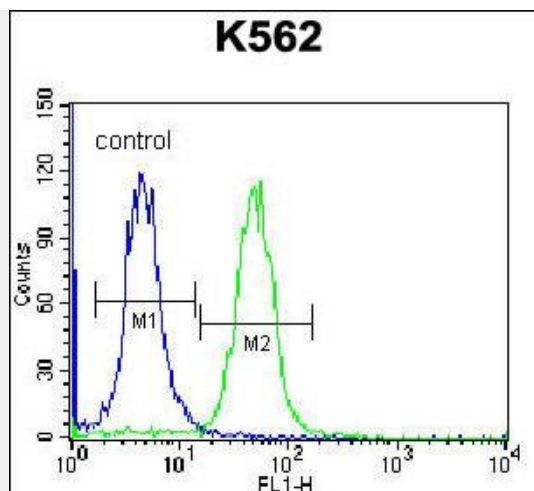
Provided below are standard protocols that you may find useful for product applications.

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

CACNG4 Antibody (Center) - Images



CACNG4 Antibody (Center) (Cat. #AP12867c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the CACNG4 antibody detected the CACNG4 protein (arrow).



CACNG4 Antibody (Center) (Cat. #AP12867c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

CACNG4 Antibody (Center) - 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) - 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)