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CACNG4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12867c

Product Information

Application	WB, FC, E
Primary Accession	Q9UBN1
Other Accession	Q8VHW9, Q9JJV4, NP_055220.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32662
Calculated MW	36579
Antigen Region	147-175

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

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 (AMPARs), 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.

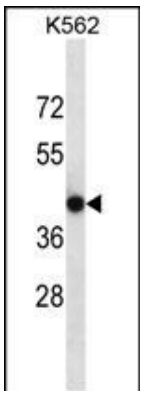
Background

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.

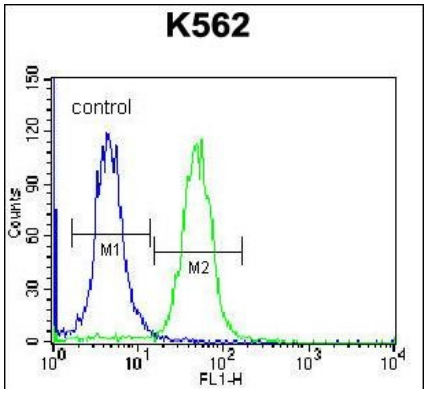
References

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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)

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.