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CACNG8 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11619A

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8WXS5
Other Accession	Q8VHW5, Q8VHW2, NP_114101.4
Reactivity	Human, Rat, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29623
Calculated MW	43313
Antigen Region	90-119

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~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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 (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. 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.

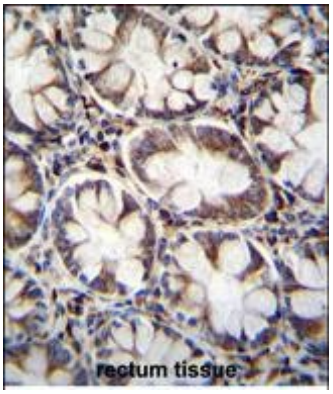
Background

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.

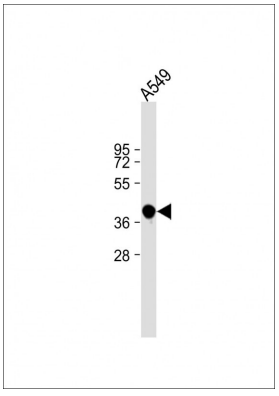
References

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)

Images



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.



All lanes : Anti-CACNG8 Antibody (N-term) at 1:500 dilution Lane 1: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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