

Anti-CACNG2 Antibody

**Description**

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 schizophrenia.

Model	STJ116036
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 204-323 of human CACNG2 (NP_006069.1).
Gene ID	10369
Gene Symbol	CACNG2
Dilution range	IF 1:50 - 1:100
Tissue Specificity	Brain
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Voltage-dependent calcium channel gamma-2 subunit Neuronal voltage-gated calcium channel gamma-2 subunit Transmembrane AMPAR regulatory protein gamma-2 TARP gamma-2
Molecular Weight	35.966 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:1406OMIM:602911Reactome:R-HSA-112308
Alternative Names	Voltage-dependent calcium channel gamma-2 subunit Neuronal voltage-gated calcium channel gamma-2 subunit Transmembrane AMPAR regulatory protein gamma-2 TARP gamma-2
Function	Regulates the trafficking 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 Localization	Membrane
Post-translational Modifications	Phosphorylation of Thr-321 impairs interaction with DLG1 and DLG4

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