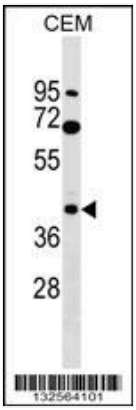
CACNG3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CACNG3, Polyclonal Antibody
Full Product Name	CACNG3, NT (CACNG3, Voltage-dependent calcium channel gamma-3 subunit, Neuronal voltage-gated calcium channel gamma-3 subunit, Transmembrane AMPAR regulatory protein gamma-3) (FITC)
Product Gene Name	anti-CACNG3 antibody
Product Synonym Names	CACNG3; Voltage-dependent calcium channel gamma-3 subunit; Neuronal voltage-gated calcium channel gamma-3 subunit; Transmembrane AMPAR regulatory protein gamma-3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,549 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (24266874..24373737). Location: 16p12.1
OMIM	606403
3D Structure	ModBase 3D Structure for O60359
Immunogen	CACNG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-56 amino acids from the N-terminal region of human CACNG3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CACNG3 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-CACNG3 antibody	Western Blot (WB), FLISA
Application Notes for anti-CACNG3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CACNG3 antibody	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 childhood absence epilepsy.

Product References and Citations for anti-CACNG3 antibody	Kato, A.S., et al. Trends Neurosci. 33(5):241-248(2010). Sager, C., et al. Neuroscience 158(1):45-54(2009). Everett, K.V., et al. Eur. J. Hum. Genet. 15(4):463-472(2007). Lamesch, P., et al. Genomics 89(3):307-315(2007). Chen, R.S., et al. Cell Biochem. Biophys. 47(2):178-186(2007).
Other Notes	Small volumes of anti-CACNG3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CACNG3 purchase	MBS6280389 is an antibody targeting CACNG3. Also known as CACNG3, NT (CACNG3, Voltage-dependent calcium channel gamma-3 subunit, Neuronal voltage-gated calcium channel gamma-3 subunit, Transmembrane AMPAR regulatory protein gamma-3) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CACNG3 antibody
CACNG3 Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the CACNG3 antibody detected the CACNG3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CACNG3. It may not necessarily be applicable to this product.

NCBI GI #	5729756
NCBI GeneID	10368
NCBI Accession #	NP_006530.1
UniProt Primary Accession #	O60359
UniProt Related Accession #	O60359
GenBank Nucleotide #	NM_006539.3
NCBI Official Full Name	voltage-dependent calcium channel gamma-3 subunit
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, gamma subunit 3
NCBI Official Symbol	CACNG3
UniProt Protein Name	Voltage-dependent calcium channel gamma-3 subunit
UniProt Synonym Protein Names	Neuronal voltage-gated calcium channel gamma-3 subunit; Transmembrane AMPAR regulatory protein gamma-3
Protein Family	Voltage-dependent calcium channel
UniProt Gene Name	CACNG3
UniProt Synonym Gene Names	TARP gamma-3
UniProt Entry Name	CCG3_HUMAN
NCBI Protein Information	voltage-dependent calcium channel gamma-3 subunit; TARP gamma-3; voltage-gated calcium channel gamma subunit; transmembrane AMPAR regulatory protein gamma-3; neuronal voltage-gated calcium channel gamma-3 subunit

UniProt Comments for CACNG3	Function: 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. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. Thought to stabilize the calcium channel in an inactivated (closed) state By similarity. Subunit structure: The L-type calcium channel is composed of five subunits: alpha-1, alpha-2/delta, beta and gamma. Acts as an auxiliary subunit for AMPA-selective glutamate receptors (AMPARs). Found in a complex with GRIA1, GRIA2, GRIA3, GRIA4, CNIH2, CNIH3, CACNG2, CACNG4, CACNG5, CACNG7 and CACNG8 By similarity. Subcellular location: Membrane; Multi-pass membrane protein. Sequence similarities: Belongs to the PMP-22/EMP/MP20 family. CACNG subfamily.
Research Articles on CACNG3	**1.** These results suggest that CACNG3 is the best candidate for an age-related macular degeneration risk gene within the 16p12 linkage peak.
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