10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CACNG5 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6630b

Specification

CACNG5 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9UF02
Other Accession	Q8VHW8, Q8VHW4
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30903**
Antigen Region	**192-220**

CACNG5 Antibody (C-term) - Additional Information

Gene ID 27091

Other Names
Voltage-dependent calcium channel gamma-5 subunit, Neuronal voltage-gated calcium channel gamma-5 subunit, Transmembrane AMPAR regulatory protein gamma-5, TARP gamma-5, CACNG5

Target/Specificity
This CACNG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-220 amino acids from the C-terminal region of human CACNG5.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
CACNG5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CACNG5 Antibody (C-term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name CACNG5

Function Regulates the gating properties of AMPA-selective glutamate receptors (AMPARs). Modulates their gating properties by accelerating their rates of activation, deactivation and desensitization. Displays subunit-specific AMPA receptor regulation. Shows specificity for GRIA1, GRIA4 and the long isoform of GRIA2. Thought to stabilize the calcium channel in an inactivated (closed) state (By similarity).

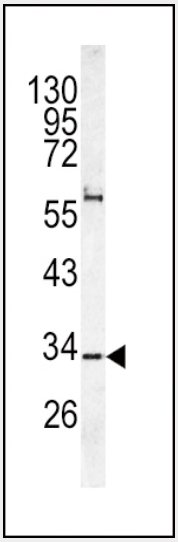
Cellular Location
Membrane; Multi-pass membrane protein. Postsynaptic density membrane

CACNG5 Antibody (C-term) - Protocols

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

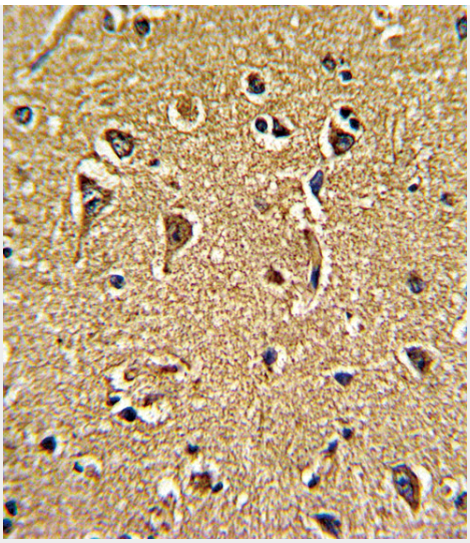
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CACNG5 Antibody (C-term) - Images

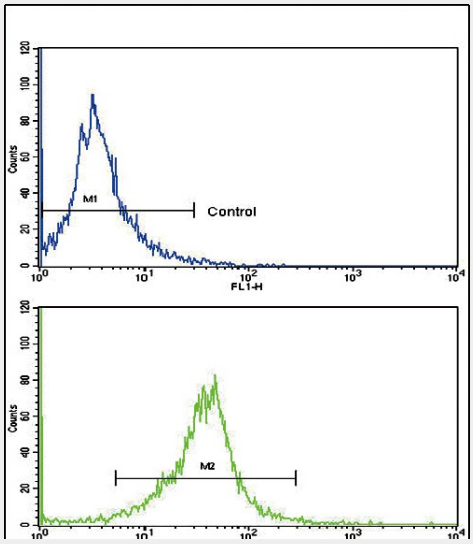


Western blot analysis of CACNG5 antibody (C-term) (Cat. #AP6630b) in K562 cell line lysates (35ug/lane). CACNG5 (arrow) was detected using the purified Pab.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Formalin-fixed and paraffin-embedded human brain tissue reacted with CACNG5 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of K562 cells using CACNG5 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CACNG5 Antibody (C-term) - Background

L-type calcium channels are composed of five subunits. The protein CACNG5 represents one of these subunits, gamma, and is one of several gamma subunit proteins. It is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state.

CACNG5 Antibody (C-term) - References

Chu,P.J., Gene 280 (1-2), 37-48 (2001)