

CACNG5 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6630b**Specification**

CACNG5 Antibody (C-term) - Product Information

| | |
|-------------------|---|
| Application | FC, WB, IHC-P,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

FC~~1:10~50

WB~~1:1000

IHC-P~~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 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

Name CACNG5

Function Regulates the gating properties of AMPA-selective glutamate receptors (AMPA receptors). 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).

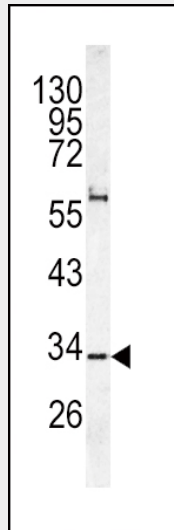
Cellular Location

Membrane; Multi-pass membrane protein. Postsynaptic density membrane

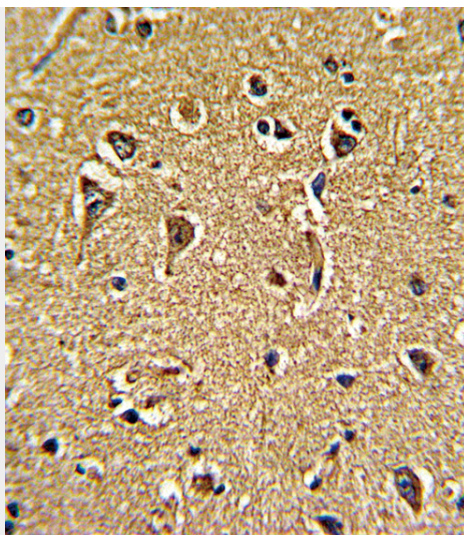
CACNG5 Antibody (C-term) - Protocols

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

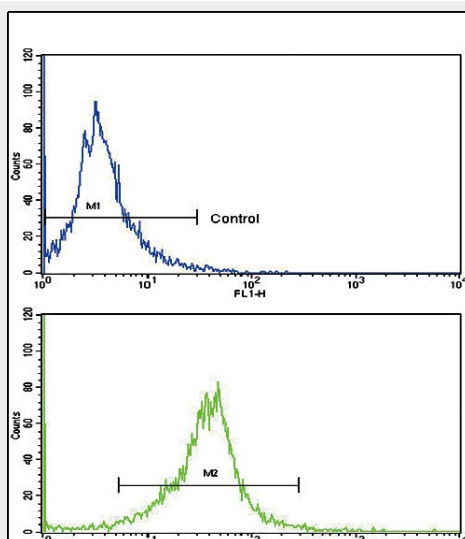
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.



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)