

**DATASHEET**

**CACNG2 Rabbit Polyclonal Antibody**

CAT. NO. APA12380

**KEY FEATURES**

|               |   |               |                    |
|---------------|---|---------------|--------------------|
| Target        | CACNG2  | Source / Host | Rabbit             |
| Reactivity    | Human, Mouse, Rat   | Clonality     | Polyclonal         |
| Applications  | WB, IHC   | Conjugation   | Unconjugated       |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at-20°C |

**BACKGROUND**

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.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |                 |
|-----|-----------------|
| WB  | 1:1000 - 1:2000 |
| IHC | 1:200 - 1:500   |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

|                   |   |
|-------------------|---|
| Description       | Rabbit polyclonal antibody to CACNG2  |
| Specificity       | Recognizes endogenous levels of CACNG2 protein.   |
| Antibody Type     | Primary antibody  |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence of human CACNG2. The exact sequence is proprietary.  |
| Purification      | The antibody was purified by immunogen affinity chromatography.   |
| Molecular Weight  | Predicted: 35 kD; Observed: 36 kD   |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.   |
| 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 |
| Gene Symbol       | CACNG2  |
| Entrez Gene       | 10369(Human)  |
| SwissProt         | Q9Y698(Human)   |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

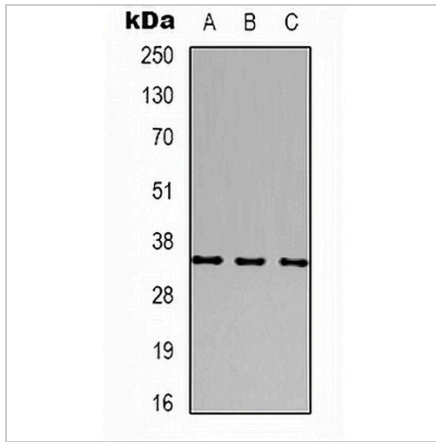
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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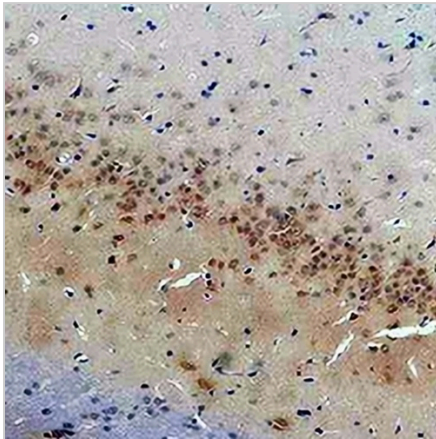
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**DATA**



Western blot analysis of CACNG2 expression in human brain (A), mouse brain (B), rat brain (C) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 36 kD)



Immunohistochemical analysis of CACNG2 staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.