

**Anti-Human/Mouse/Rat CACNG2 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA04169**

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3th Edition

**Description:**CACNG2 (Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 2) is a Protein Coding gene. Diseases associated with CACNG2 include Mental Retardation, Autosomal Dominant 10 and Autosomal Dominant Non-Syndromic Intellectual Disability. Among its related pathways are PEDF Induced Signaling and DREAM Repression and Dynorphin Expression. GO annotations related to this gene include voltage-gated calcium channel activity and ionotropic glutamate receptor binding. An important paralog of this gene is CACNG3. 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. The AMPA subtype of ionotropic glutamate receptors are ligand gated ion channels that are typically activated by glutamate released from presynaptic neuron terminals and mediate fast neurotransmission in excitatory synapses. TARPs thus play an important role in synaptic plasticity, learning and memory. Mutations in this gene cause the disorder autosomal dominant mental retardation-10 (MRD10).

**Antigen:**Synthetic Peptide

**Form:**

**How to use:**1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:**PBS (pH7.4) containing 1% BSA

**Application:**This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**Brain.