

## CACNA2D2

**Reactivity:**Mouse Rat

**Tested applications:**WB

**Recommended Dilution:**WB 1:200 - 1:2000

**Calculated MW:**130kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human CACNA2D2

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

CACNA2D;

**Catalog #:**A10267

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**9254

**Isotype:**IgG

**Swiss Prot:**Q9NY47

**Purity:**Affinity purification

For research use only.

**Background:**

Calcium channels mediate the entry of calcium ions into the cell upon membrane polarization. This gene encodes the alpha-2/delta subunit of the voltage-dependent calcium channel complex. The complex consists of the main channel-forming subunit alpha-1, and auxiliary subunits alpha-2/delta, beta, and gamma. The auxiliary subunits function in the assembly and membrane localization of the complex, and modulate calcium currents and channel activation/inactivation kinetics. The subunit encoded by this gene undergoes post-translational cleavage to yield the extracellular alpha2 peptide and a membrane-anchored delta polypeptide. This subunit is a receptor for the antiepileptic drug, gabapentin. Mutations in this gene are associated with early infantile epileptic encephalopathy. Single nucleotide polymorphisms in this gene are correlated with increased sensitivity to opioid drugs. Alternative splicing results in multiple transcript variants encoding different isoforms.

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