

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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