

## Rabbit CACNA2D2 Polyclonal Antibody | anti-CACNA2D2 antibody

CACNA2D2 Polyclonal Antibody

|                               |                       |                                     |
|-------------------------------|-----------------------|-------------------------------------|
| CATALOG #<br><b>AAA173604</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-------------------------------------|

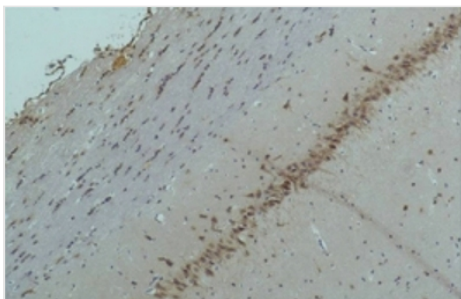
### PRODUCT SYNONYMS

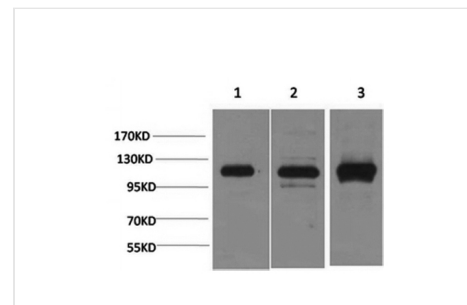
CACNA2D2; Polyclonal Antibody; CACNA2D2 Polyclonal Antibody; CACNA2D; anti-CACNA2D2 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                   |
|----------------------------------------------------|---------------------------------------------------|
| Host                                               | Rabbit                                            |
| Clonality                                          | Polyclonal                                        |
| Isotype                                            | IgG                                               |
| Concentration                                      | 1mg/mL (varies by lot)                            |
| Sequence Length                                    | 1145                                              |
| Applicable Applications for anti-CACNA2D2 antibody | WB (Western Blot)                                 |
| Immunogen                                          | Recombinant protein of human CACNA2D2             |
| Buffer                                             | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |
| Preparation and Storage                            | Store at -20 degree C. Avoid freeze/thaw cycles.  |

### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded Rat brain tissue using CaV $\alpha$ 2 $\delta$ 2 Polyclonal Antibody at dilution of 1:200.

**WB (Western Blot)**

Western Blot analysis of 1) 293T, 2) Mouse brain, 3) Rat brain using CaV $\alpha$ 2 $\delta$ 2 Polyclonal Antibody at dilution of 1:2000.

### ADDITIONAL INFORMATION

#### Related Product Information for anti-CACNA2D2 antibody

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.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 54112392                                                            |
| NCBI GeneID                      | 9254                                                                |
| NCBI Accession #                 | NP_001005505.1                                                      |
| NCBI GenBank Nucleotide #        | NM_001005505.2                                                      |
| UniProt Accession #              | Q9NY47; Q9NY48; Q9UEW0; Q9Y268; A7MD15                              |
| Molecular Weight                 | 130kDa                                                              |
| NCBI Official Full Name          | voltage-dependent calcium channel subunit alpha-2/delta-2 isoform a |
| NCBI Official Synonym Full Names | calcium voltage-gated channel auxiliary subunit alpha2delta 2       |
| NCBI Official Symbol             | CACNA2D2                                                            |
| NCBI Official Synonym Symbols    | CACNA2D                                                             |
| NCBI Protein Information         | voltage-dependent calcium channel subunit alpha-2/delta-2           |
| UniProt Protein Name             | Voltage-dependent calcium channel subunit alpha-2/delta-2           |
| UniProt Gene Name                | CACNA2D2                                                            |
| UniProt Synonym Gene Names       | KIAA0558                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cacna2d2-antibody-western-blot-elisa/173604>