



## Rabbit Anti-CACNA2 antibody

SL11981R

<b>Product Name:</b>	CACNA2
<b>Chinese Name:</b>	钙通道L型 $\alpha$ 2多肽抗体
<b>Alias:</b>	Calcium channel L type DHPR alpha 2 subunit; CA2D1_HUMAN; CACN A2; CACNA2; CACNA2D1; CACNL2A; Calcium channel L type alpha 2 polypeptide; Calcium channel voltage dependent alpha 2/delta subunit 1; CCHL2A; Dihydropyridine receptor alpha 2 subunit; Dihydropyridine sensitive L type calcium channel alpha 2/delta subunit; Dihydropyridine sensitive L type calcium channel subunits alpha 2/delta; H_DJ0560O14.1; L type calcium channel subunit alpha 2; MHS 3; MHS3; Voltage dependent calcium channel subunit alpha 2/delta 1; Voltage gated calcium channel subunit alpha 2/delta 1; Voltage-dependent calcium channel subunit delta-1; Voltage-gated calcium channel subunit alpha-2/delta-1; WUGSC:H DJ0560O14.1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	16/106/122kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CACNA2/CACNA2D1:571-610/1103<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]</p> <p><b>Function:</b> The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Plays an important role in excitation-contraction coupling.</p> <p><b>Subunit:</b> Dimer formed of alpha-2-1 and delta-1 chains; disulfide-linked. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1 (CACNA1), alpha-2 (CACNA2D), beta (CACNB) and delta (CACNA2D) subunits in a 1:1:1:1 ratio</p> <p><b>Subcellular Location:</b> Membrane; Single-pass type I membrane protein</p> <p><b>Tissue Specificity:</b> Isoform 1 is expressed in skeletal muscle. Isoform 2 is expressed in the central nervous system. Isoform 2, isoform 4 and isoform 5 are expressed in neuroblastoma cells. Isoform 3, isoform 4 and isoform 5 are expressed in the aorta.</p> <p><b>Post-translational modifications:</b> Proteolytically processed into subunits alpha-2-1 and delta-1 that are disulfide-linked.</p> <p><b>Similarity:</b> Belongs to the calcium channel subunit alpha-2/delta family. Contains 1 cache domain. Contains 1 VWFA domain.</p> <p><b>SWISS:</b> P54289</p> <p><b>Gene ID:</b> 781</p> <p><b>Database links:</b> <a href="#">Entrez Gene: 781</a> Human</p>

[Entrez Gene: 12293](#) Mouse

[Entrez Gene: 397377](#) Pig

[Entrez Gene: 25399](#) Rat

[Omim: 114204](#) Human

[SwissProt: P54289](#) Human

[SwissProt: Q17R45](#) Human

[SwissProt: Q9UIU0](#) Human

[SwissProt: O08532](#) Mouse

[SwissProt: Q14BH8](#) Mouse

[SwissProt: Q3TQD0](#) Mouse

[SwissProt: Q8C6Y3](#) Mouse

[SwissProt: P13806](#) Rabbit

[SwissProt: P54290](#) Rat

[Unigene: 282151](#) Human

[Unigene: 159842](#) Mouse

[Unigene: 11276](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.