

Datasheet for ABIN6719473
anti-CACNA2D2 antibody (AA 66-284)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CACNA2D2
Binding Specificity:	AA 66-284
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA2D2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-CACNA2D2 Antibody Picoband®
Immunogen:	E. coli-derived human CACNA2D2 recombinant protein (Position: Q66-Q284).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CACNA2D2 Antibody Picoband® (ABIN6719473). Tested in ELISA, Flow Cytometry, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CACNA2D2
Alternative Name:	CACNA2D2 (CACNA2D2 Products)
Background:	<p>Synonyms: Voltage-dependent calcium channel subunit alpha-2/delta-2, Voltage-gated calcium channel subunit alpha-2/delta-2, Voltage-dependent calcium channel subunit alpha-2-2, Voltage-dependent calcium channel subunit delta-2, CACNA2D2, KIAA0558</p> <p>Tissue Specificity: Predominantly present in cerebellar cortex. Present in various lung tumor cell lines, while it is absent in normal lung (at protein level). Highly expressed in heart, lung, testis, pancreas and skeletal muscle. Also expressed in kidney, liver, placenta and brain.</p> <p>Background: Voltage-dependent calcium channel subunit alpha2delta-2 is a protein that in humans is encoded by the CACNA2D2 gene. This gene is mapped to 3p21.31. It 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. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. 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, encoding different isoforms, have been characterized.</p>
Molecular Weight:	130 kDa
Gene ID:	9254
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	<p>Western blot, 0.1-0.5 µg/mL</p> <p>Immunohistochemistry (Frozen Section), 0.5-1 µg/mL</p> <p>Immunocytochemistry, 0.5-1 µg/mL</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells</p> <p>ELISA, 0.1-0.5 µg/mL</p> <p>1. Brill, J., Klocke, R., Paul, D., Boison, D., Gouder, N., Klugbauer, N., Hofmann, F., Becker, C.-M., Becker, K. Entla, a novel epileptic and ataxic Cacna2d2 mutant of the mouse. J. Biol. Chem. 279: 7322-7330, 2004. 2. Brodbeck, J., Davies, A., Courtney, J.-M., Meir, A., Balaguero, N., Canti, C., Moss, F. J., Page, K. M., Pratt, W. S., Hunt, S. P., Barclay, J., Rees, M., Dolphin, A. C. The ducky mutation in Cacna2d2 results in altered Purkinje cell morphology and is associated with the</p>
--------------------	--

Application Details

	expression of a truncated alpha-2/delta-2 protein with abnormal function. J. Biol. Chem. 277: 7684-7693, 2002.
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.