



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat Anti-CACNA2D1

With HRP-conjugated Secondary Antibody

Catalog No.

ER-14-0259

Accession Number

NP_000713.2

Target Protein

Principal Names: dihydropyridine-sensitive L-type, calcium channel alpha-2/delta subunit, calcium channel, L type, alpha 2 polypeptide, WUGSC:H_DJ0560O14.1, H_DJ0560O14.1, MHS3, CCHL2A, CACNL2A, CACNA2, calcium channel, voltage-dependent, alpha 2/delta subunit 1, CACNA2D1

Official Symbol: CACNA2D1

Accession Number(s): NP_000713.2

Human GeneID(s): 781

Non-Human GeneID(s): 12293 (mouse), 25399 (rat)

Immunogen

Peptide with sequence C-QEIFNKYNKDKKVR, from the internal region of the protein sequence according to NP_000713.2.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.

Western blot: Approx 140kDa band observed in Human Brain (Cerebellum) lysates (calculated MW of 123kDa according to NP_000713.2). Recommended concentration: 0.03-0.1 µg/ml.

Species Reactivity

Tested: Human, Mouse

Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Secondary Antibody Applications

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Specific Reference

This antibody has been successfully used in the following papers:

Neely GG et.al.

A genome-wide Drosophila screen for heat nociception identifies $\alpha 2\delta 3$ as an evolutionarily conserved pain gene.

Cell. 2010 Nov 12;143(4):628-38.

PMID: 21074052

Image



ER-14-0259 (0.03 μ g/ml) staining of Human Brain (Cerebellum) lysate (35 μ g protein in RIPA buffer).
Primary incubation was 1 hour. Detected by chemiluminescence.

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