

Datasheet for ABIN2776091
anti-CACNA2D1 antibody (Middle Region)[Go to Product page](#)[2 Images](#)[2 Publications](#)

Overview

Quantity:	100 µL
Target:	CACNA2D1
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Dog, Rabbit, Cow, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA2D1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CACNA2D1
Sequence:	PKSQEPVTL DFLDAE LENDI KVEIRNK MIDGESGEKTFRT LVKSQDERYI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against CACNA2D1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	CACNA2D1
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Target Details

Alternative Name:	CACNA2D1 (CACNA2D1 Products)
Background:	<p>CACNA2D1 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.</p> <p>Alias Symbols: CACNA2, CCHL2A, CACNL2A</p> <p>Protein Interaction Partner: STT3B, RAB11A, NDUFS4, Cep76,</p> <p>Protein Size: 1091</p>
Molecular Weight:	120 kDa
Gene ID:	781
NCBI Accession:	NM_000722 , NP_000713
UniProt:	P54289

Application Details

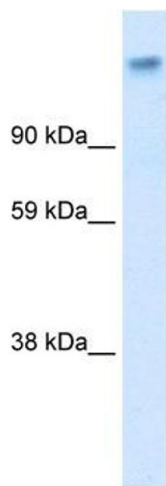
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1091 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

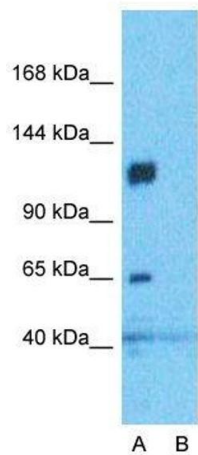
Product cited in: Ramsey, Clarke, Roberts, Sullivan, Johnson, Liu: "An economic evaluation of atorvastatin for primary prevention of cardiovascular events in type 2 diabetes." in: **Pharmacoeconomics**, Vol. 26, Issue 4, pp. 329-39, (2008) ([PubMed](#)).

Validation report #104256 for Western Blotting (WB)



Western Blotting

Image 1. WB Suggested Anti-CACNA2D1 Antibody Titration: 0.12ug/ml ELISA Titer: 1:312500 Positive Control: Human Muscle



Anti-CACNA2D1 Western Blot & Peptide Block Validation

Lot Number: QC4349

Lysate: Fetal Muscle

Lane A: Primary Antibody

Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 1.0µg/ml

Peptide Concentration: 5.0µg/ml

Lysate Quantity: 25µg/lane

Gel Concentration: 12%

Western Blotting

Image 2. Host: Rabbit Target Name: CACNA2D1 Sample Type: Fetal Muscle Lane A: Primary Antibody Lane B: Primary Antibody + Blocking Peptide Primary Antibody Concentration: 1ug/ml Peptide Concentration: 5ug/ml Lysate Quantity: 25ug/lane/Lane Gel Concentration: 0.12