

Datasheet for ABIN657303

## anti-CACNA2D2 antibody (AA 643-671)



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### 3 Images

#### Overview

Quantity:	400 µL
Target:	CACNA2D2
Binding Specificity:	AA 643-671
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA2D2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Immunogen:	This CACNA2D2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 643-671 amino acids from the Central region of human CACNA2D2.
Clone:	RB32703
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Target Details

Target:	CACNA2D2
Alternative Name:	CACNA2D2 ( <a href="#">CACNA2D2 Products</a> )

## Target Details

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Background:	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. 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.
Molecular Weight:	129817
Gene ID:	9254
NCBI Accession:	<a href="#">NP_001005505</a> , <a href="#">NP_001167522</a> , <a href="#">NP_006021</a>
UniProt:	<a href="#">Q9NY47</a>
Pathways:	<a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

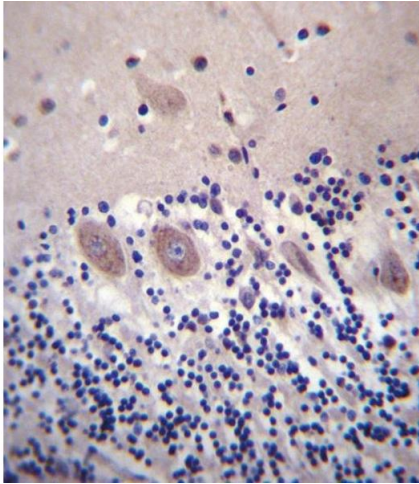
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Application Notes:	WB: 1:2000. WB: 1:2000. IHC-P: 1:10~50
Restrictions:	For Research Use only

## Handling

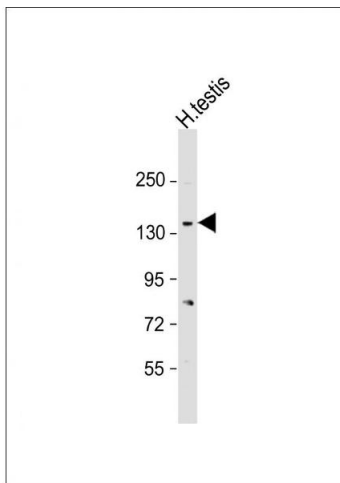
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Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



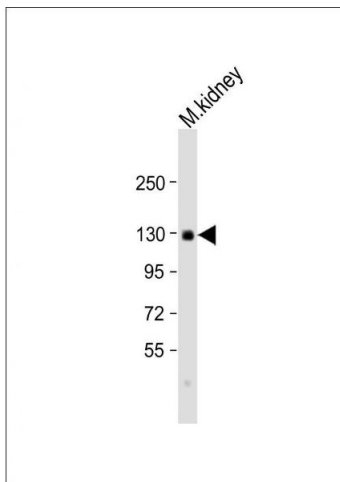
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** CACNA2D2 Antibody (Center) (ABIN657303 and ABIN2846384) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CACNA2D2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



### Western Blotting

**Image 2.** Anti-CACNA2D2 Antibody (Center) at 1:2000 dilution + human testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 130 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.



### Western Blotting

**Image 3.** Anti-CACNA2D2 Antibody (Center) at 1:2000 dilution + mouse kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 130 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.