

## CACNA1D Antibody / CaV1.3 (R31417)

Catalog No.	Formulation	Size
R31417	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	Q01668
<b>Applications</b>	Western Blot : 0.5-1ug/ml
<b>Limitations</b>	This CACNA1D antibody is available for research use only.



Western blot testing of CACNA1D antibody and rat brain lysate. Expected molecular weight: ~245 kDa.

### Description

Cav1.3, also known as the calcium channel, voltage-dependent, L type, alpha 1D subunit (CACNA1D), is a human gene. Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Alpha-1D subunit can mediate DHP-sensitive, high voltage-activated, long-lasting calcium channel activity. CACNA1D can form L-type calcium channels with negative activation thresholds which is essential for normal auditory function and controlling of cardiac pacemaker activity.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CACNA1D antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human CaV1.3/CACNA1D (RDEEDLADEMICITTL) was used as the immunogen for this CACNA1D antibody.

## Storage

After reconstitution, the CACNA1D antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.