

# CACNA1A Rabbit pAb

**Catalog No.: A20387**

## Basic Information

**Observed MW**

Refer to figures

**Calculated MW**

283kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Human

## Background

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. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas, the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2. This gene also exhibits polymorphic variation due to (CAG)<sub>n</sub>-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)<sub>n</sub>-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)<sub>n</sub>-repeats which encode a polyglutamine tract. Expansion of the (CAG)<sub>n</sub>-repeats from the normal 4-18 to 21-33 in the coding region is associated with spinocerebellar ataxia 6.

## Recommended Dilutions

**WB** 1:500 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

773

**Swiss Prot**

O00555

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; DEE42; CAV2.1; EIEE42; CACNL1A4; CACNA1A

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.