**Product datasheet**

**Anti-Calcium channel L type DHPR alpha 2 subunit/CACNA2D1 antibody ab238110**

2 Images

### Overview

**Product name**
Anti-Calcium channel L type DHPR alpha 2 subunit/CACNA2D1 antibody

**Description**
Rabbit polyclonal to Calcium channel L type DHPR alpha 2 subunit/CACNA2D1

**Host species**
Rabbit

**Tested applications**
Suitable for: IHC-P, ICC/IF

**Species reactivity**
Reacts with: Human

**Immunogen**
Recombinant fragment corresponding to Human Calcium channel L type DHPR alpha 2 subunit/CACNA2D1 aa 528-668. Database link: P54289

**Positive control**
IHC-P: Human skeletal muscle tissue. ICC/IF: HeLa.

**General notes**
This product was previously labelled as Calcium channel L type DHPR alpha 2 subunit

### Properties

**Form**
Liquid

**Storage instructions**

**Storage buffer**
pH: 7.40
Preservative: 0.03% Proclin
Constituents: 50% Glycerol, PBS

**Purity**
Protein G purified

**Purification notes**
Purity greater than 95%.

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications
**Function**
The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Plays an important role in excitation-contraction coupling.

**Tissue specificity**
- Isoform 1 is expressed in skeletal muscle.
- Isoform 2 is expressed in the central nervous system.
- Isoform 2, isoform 4 and isoform 5 are expressed in neuroblastoma cells.
- Isoform 3, isoform 4 and isoform 5 are expressed in the aorta.

**Sequence similarities**
Belongs to the calcium channel subunit alpha-2/delta family.
Contains 1 cache domain.
Contains 1 VWFA domain.

**Domain**
The MIDAS-like motif in the VWFA domain binds divalent metal cations and is required to promote trafficking of the alpha-1 (CACNA1) subunit to the plasma membrane by an integrin-like switch.

**Post-translational modifications**
Proteolytically processed into subunits alpha-2-1 and delta-1 that are disulfide-linked.

**Cellular localization**
Membrane.

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**Images**

**Immunocytochemistry/ Immunofluorescence**
- Immunocytochemistry/ Immunofluorescence of HeLa cells with ab238110 1/200 counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The secondary antibody was Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).

**Immunocytochemistry/ Immunofluorescence - Anti-Calcium channel L type DHPR alpha 2 subunit/CACNA2D1 antibody (ab238110)**
Paraffin-embedded human skeletal muscle tissue stained for Calcium channel L type DHPR alpha 2 subunit/CACNA2D1 with ab238110 at a 1/100 dilution in immunohistochemical analysis.

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