

Cav3.3 Rabbit pAb

CatalogNo: YN5639

Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat

Applications

- IHC,IF

MW

- 240kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-200

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthetic Peptide of Cav3.3 AA range: 210-290

Specificity Cav3.3 protein(A209) detects endogenous levels of Cav3.3

Target Information

Gene name CACNA1I

Protein Name Voltage-dependent T-type calcium channel subunit alpha-1I (Voltage-gated calcium channel subunit alpha Cav3.3) (Ca(v)3.3)

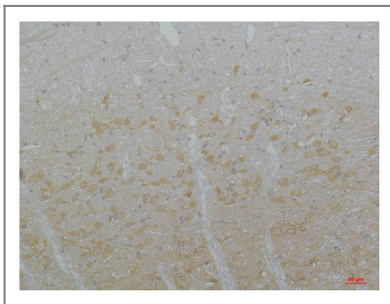
Organism	Gene ID	UniProt ID
Human	8911 ;	Q9P0X4 ;
Rat		Q9Z0Y8 ;

Cellular Localization Membrane; Multi-pass membrane protein.

Tissue specificity Brain specific.

Function Domain:Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.,Function:Voltage-sensitive calcium channels (VSCC) 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, gene expression, cell motility, cell division and cell death. Isoform alpha-1I gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group and are strongly blocked by nickel and mibefradil. A particularity of this type of channels is an opening at quite negative potentials, and a voltage-dependent inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes. Gates in voltage ranges similar to, but higher than alpha 1G or alpha 1H.,PTM:In response to raising of intracellular calcium, the T-type channels are activated by CaM-kinase II.,similarity:Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family.,subunit:Interacts with CATSPER1 and CATSPER2, leading to suppress T-type calcium channel activity.,tissue specificity:Brain specific.,

Validation Data



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using Cav3.3Rabbit pAb diluted at 1:200.

Contact information

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