CAC1E Rabbit pAb

CatalogNo: YN1528

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,IF

MW
- 254kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

IHC 1:50-300
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human protein . at AA range: 370-450
Specificity	CAC1E Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CACNA1E CACH6 CACNL1A6

Protein Name Voltage-dependent R-type calcium channel subunit alpha-1E (Brain calcium channel II) (BII) (Calcium channel, L type, alpha-1 polypeptide, isoform 6) (Voltage-gated calcium channel subunit alpha Cav2.3)

Organism	Gene ID	UniProt ID
Human	777;	Q15878;
Mouse		Q61290;
Rat		Q07652;

Cellular Localization Membrane; Multi-pass membrane protein.

Tissue specificity Expressed in neuronal tissues and in kidney.

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. The isoform alpha-1E gives rise to R-type calcium currents. R-type calcium channels belong to the 'high-voltage activated' (HVA) group and are blocked by nickel, and partially by omega-agatoxin-IIIA (omega-Aga-IIIA). They are however insensitive to dihydropyridines (DHP), omega-conotoxin-GVIA (omega-CTx-GVIA), and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels contaning alpha-1E subunit could be involved in the modulation of firing patterns of neurons which is important for information processing.,similarity:Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family.,similarity:Contains 1 EF-hand domain.,subunit:Interacts with EFHC1. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The channel activity is directed by the pore-forming and voltage-sensitive alpha-1 subunit. In many cases, this subunit is sufficient to generate voltage-sensitive calcium channel activity. The auxiliary subunits beta and alpha-2/delta linked by a disulfide bridge regulate the channel activity.,tissue specificity:Expressed in neuronal tissues and in kidney.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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