Product Name: Na+ CP type VIIα Rabbit Polyclonal

Antibody

Catalog #: APRab14376



Summary

Production Name Na+ CP type VIIα Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application IF,ELISA

Reactivity Human, Monkey

Performance

| Conjugation | Unconjugated |
|--------------|--|
| Modification | Unmodified |
| Isotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| Purification | Affinity purification |

Immunogen

Gene Name SCN7A

SCN7A; SCN6A; Sodium channel protein type 7 subunit alpha; Putative voltage-gated

Alternative Names sodium channel subunit alpha Nax; Sodium channel protein cardiac and skeletal muscle

subunit alpha; Sodium channel protein type VII subunit alpha

Gene ID 6332.0

Q01118.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

SCN7A. AA range:771-820

Application

Dilution Ratio IF 1:200-1:1000.

Molecular Weight 200kD

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Background

This gene encodes one of the many voltage-gated sodium channel proteins. For proper functioning of neurons and muscles during action potentials, voltage-gated sodium channels direct sodium ion diffusion for membrane depolarization. This sodium channel protein has some atypical characteristics; the similarity between the human and mouse proteins is lower compared to other orthologous sodium channel pairs. Also, the S4 segments, which sense voltage changes, have fewer positive charged residues that in other sodium channels; domain 4 has fewer arginine and lysine residues compared to other sodium channel proteins. Several alternatively spliced transcript variants exist, but the full-length natures of all of them remain unknown. [provided by RefSeq, Dec 2011],domain:The sequence contains 4 internal repeats, each with 5 hydrophobic segments (S1,S2,S3,S5,S6) and one positively charged segment (S4). Segments S4 are probably the voltage-sensors and are characterized by a series of positively charged amino acids at every third position.,function:Mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which Na(+) ions may pass in accordance with their electrochemical gradient.,similarity:Belongs to the sodium channel family, tissue specificity:Heart and uterus.,

Research Area

Image Data



Immunofluorescence analysis of A549 cells, using SCN7A Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.

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