

SCN5A (aa1021-1034) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3511a**Specification**

SCN5A (aa1021-1034) Antibody (internal region) - Product Information

Application	E
Primary Accession	Q14524
Other Accession	NP_932173.1 , NP_000326.2 , NP_001092874.1 , NP_001092875.1 , NP_001153632.1 , NP_001153633.1 , 6331
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	226940

SCN5A (aa1021-1034) Antibody (internal region) - Additional Information**Gene ID** 6331**Other Names**

Sodium channel protein type 5 subunit alpha, HH1, Sodium channel protein cardiac muscle subunit alpha, Sodium channel protein type V subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.5, SCN5A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SCN5A (aa1021-1034) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

SCN5A (aa1021-1034) Antibody (internal region) - Protein Information**Name** SCN5A**Function**

This protein 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 (PubMed:<a

[1309946](http://www.uniprot.org/citations/1309946), PubMed: [21447824](http://www.uniprot.org/citations/21447824), PubMed: [25370050](http://www.uniprot.org/citations/25370050), PubMed: [23420830](http://www.uniprot.org/citations/23420830), PubMed: [23085483](http://www.uniprot.org/citations/23085483), PubMed: [26279430](http://www.uniprot.org/citations/26279430), PubMed: [26392562](http://www.uniprot.org/citations/26392562), PubMed: [26776555](http://www.uniprot.org/citations/26776555)). It is a tetrodotoxin-resistant Na(+) channel isoform (PubMed: [1309946](http://www.uniprot.org/citations/1309946)). This channel is responsible for the initial upstroke of the action potential. Channel inactivation is regulated by intracellular calcium levels (PubMed: [19074138](http://www.uniprot.org/citations/19074138)).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:D0E0C2}. Cytoplasm, perinuclear region. Cell membrane, sarcolemma, T- tubule {ECO:0000250|UniProtKB:P15389}. Cell junction {ECO:0000250|UniProtKB:P15389}. Note=RANGRF promotes trafficking to the cell membrane. Colocalizes with PKP2 at intercalated disks in the heart (By similarity). {ECO:0000250|UniProtKB:P15389, ECO:0000269|PubMed:21447824, ECO:0000269|PubMed:23420830}

Tissue Location

Found in jejunal circular smooth muscle cells (at protein level). Expressed in human atrial and ventricular cardiac muscle but not in adult skeletal muscle, brain, myometrium, liver, or spleen. Isoform 4 is expressed in brain.

SCN5A (aa1021-1034) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SCN5A (aa1021-1034) Antibody (internal region) - Images

SCN5A (aa1021-1034) Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP_932173.1; NP_000326.2; NP_001092874.1; NP_001092875.1; NP_001153632.1; NP_001153633.1).

SCN5A (aa1021-1034) Antibody (internal region) - References

SCN5A Mutation Is Associated With Early and Frequent Recurrence of Ventricular Fibrillation in Patients With Brugada Syndrome. Nishii N, Ogawa M, Morita H, Nakamura K, Banba K, Miura D, Kumagai N, Matsunaga A, Kawamura H, Urakawa S, Miyaji K, Nagai M, Satoh K, Nakagawa K, Tanaka M, Hiramatsu S, Tada T, Murakami M, Nagase S, Kohno K, Kusano KF, Saku K, Ohe T, Ito H, Circulation journal : official journal of the Japanese Circulation Society 2010 Nov 74 (12): 2572-8. PMID: 21048329