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Anti-SCN9A / Nav1.7 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17583

Specification

Anti-SCN9A / Nav1.7 Antibody (Internal) - Product Information

Application	**IHC-P**
Primary Accession	Q15858
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**226372**

Anti-SCN9A / Nav1.7 Antibody (Internal) - Additional Information

Gene ID 6335

Alias Symbol	**SCN9A**

Other Names
SCN9A, ETHA, GEFSP7, Nav1.7, HNE-Na, Peripheral sodium channel 1, PN1, SFNP, Sodium channel 25, Neuroendocrine sodium channel, FEB3B, NE-NA, NENA

Target/Specificity
Human SCN9A / Nav1.7. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except SCN8A (71%).

Reconstitution & Storage
Immunoaffinity purified

Precautions
Anti-SCN9A / Nav1.7 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-SCN9A / Nav1.7 Antibody (Internal) - Protein Information

Name SCN9A (HGNC:10597)

Synonyms NENA

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 (PubMed:7720699, PubMed:17167479, PubMed:25240195, PubMed:26680203, PubMed:<a href="http://www.uniprot.org/citations/15385606"

target="_blank">15385606, PubMed:16988069, PubMed:17145499, PubMed:19369487, PubMed:24311784). It is a tetrodotoxin-sensitive Na(+) channel isoform (PubMed:7720699). Plays a role in pain mechanisms, especially in the development of inflammatory pain (PubMed:17167479, PubMed:17145499, PubMed:19369487, PubMed:24311784).

Cellular Location
Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:D0E0C2}. Cell projection, neuron projection {ECO:0000250|UniProtKB:O08562}. Note=In neurite terminals. {ECO:0000250|UniProtKB:O08562}

Tissue Location
Expressed strongly in dorsal root ganglion, with only minor levels elsewhere in the body, smooth muscle cells, MTC cell line and C-cell carcinoma. Also expressed in vagus nerves within the head and neck region (PubMed:31647222). Isoform 1 is expressed preferentially in the central and peripheral nervous system. Isoform 2 is expressed preferentially in the dorsal root ganglion

Anti-SCN9A / Nav1.7 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SCN9A / Nav1.7 Antibody (Internal) - Images