

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

PrecautionsAnti-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

FunctionMediates 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: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 Cytometry](#)
- [Cell Culture](#)