

SCN9A / Nav1.7 Antibody (aa702-747)
Rabbit Polyclonal Antibody
Catalog # ALS16409**Specification**

SCN9A / Nav1.7 Antibody (aa702-747) - Product Information

Application	WB
Primary Accession	Q15858
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	226kDa KDa

SCN9A / Nav1.7 Antibody (aa702-747) - Additional Information**Gene ID** 6335**Other Names**

Sodium channel protein type 9 subunit alpha, Neuroendocrine sodium channel, hNE-Na, Peripheral sodium channel 1, PN1, Sodium channel protein type IX subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.7, SCN9A, NENA

Target/Specificity

Human SCN9A / Nav1.7

Reconstitution & Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

SCN9A / Nav1.7 Antibody (aa702-747) is for research use only and not for use in diagnostic or therapeutic procedures.

SCN9A / Nav1.7 Antibody (aa702-747) - 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:15385606, PubMed:16988069)

target="_blank">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

Volume

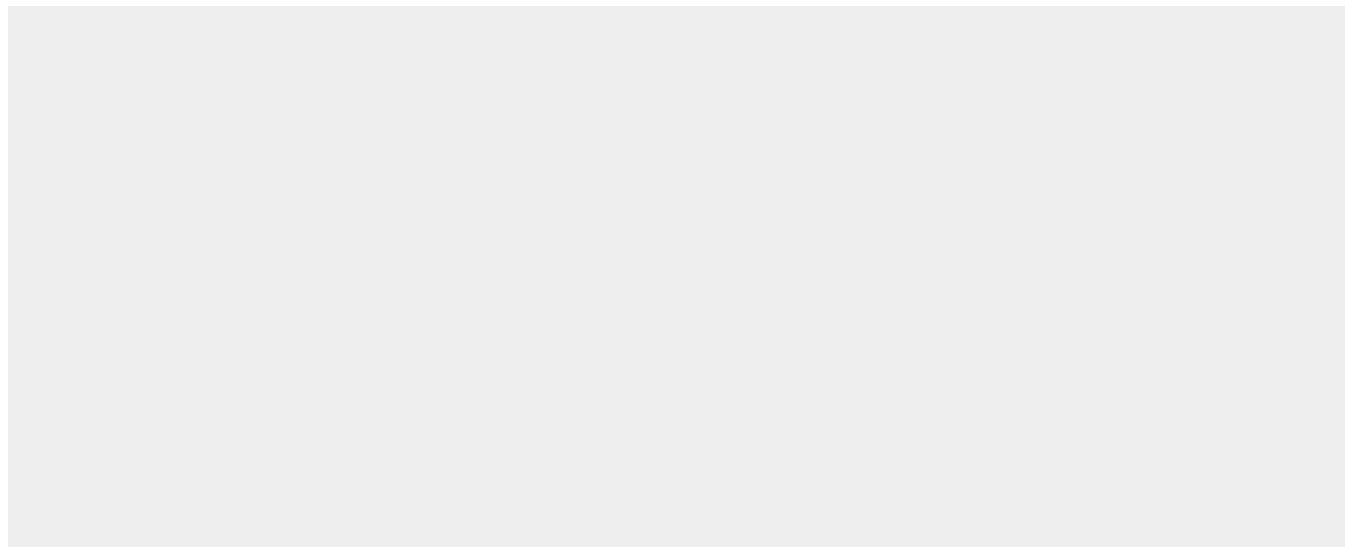
50 µl

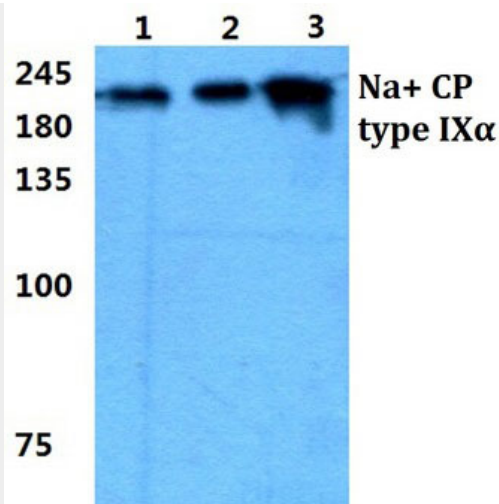
SCN9A / Nav1.7 Antibody (aa702-747) - Protocols

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](#)

SCN9A / Nav1.7 Antibody (aa702-747) - Images





Western blot analysis of Anti-SCN9A Antibody at 1:500 dilution.

SCN9A / Nav1.7 Antibody (aa702-747) - Background

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. It is a tetrodotoxin-sensitive Na(+) channel isoform. Plays a role in pain mechanisms, especially in the development of inflammatory pain (By similarity).

SCN9A / Nav1.7 Antibody (aa702-747) - References

Klugbauer N.,et al.EMBO J. 14:1084-1090(1995).
Cox J.J.,et al.Nature 444:894-898(2006).
Hillier L.W.,et al.Nature 434:724-731(2005).
Raymond C.K.,et al.J. Biol. Chem. 279:46234-46241(2004).
Diss J.K.J.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.