

Product datasheet

Recombinant Human Nav1.7 protein ab114304

画像数 1

製品の詳細

製品名	Recombinant Human Nav1.7 protein
発現系	Wheat germ
アクセッション番号	Q15858
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	GNLKHKCFRNSLENNETLESIMNTLESEEDFRKYFYYLEGSK DALLCGFS TDSGQCPEGYTCVKIGRNPDY
予測される分子量	33 kDa including tags
領域	269 to 339

特性

Our **Abpromise guarantee** covers the use of **ab114304** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Western blot ELISA SDS-PAGE
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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関連情報

機能	Mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming
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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).

組織特異性

Expressed strongly in dorsal root ganglion, with only minor levels elsewhere in the body, smooth muscle cells, MTC cell line and C-cell carcinoma. Isoform 1 is expressed preferentially in the central and peripheral nervous system. Isoform 2 is expressed preferentially in the dorsal root ganglion.

関連疾患

Primary erythralgia
Indifference to pain, congenital, autosomal recessive
Paroxysmal extreme pain disorder
Generalized epilepsy with febrile seizures plus 7
Febrile seizures, familial, 3B

配列類似性

Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.7/SCN9A subfamily.
Contains 1 IQ domain.

ドメイン

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.

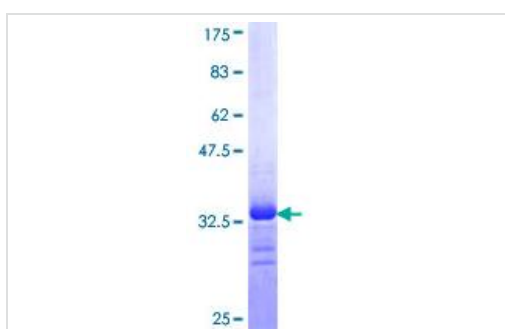
翻訳後修飾

Phosphorylation at Ser-1490 by PKC in a highly conserved cytoplasmic loop increases peak sodium currents.
Ubiquitinated by NEDD4L; which may promote its endocytosis. Does not seem to be ubiquitinated by NEDD4.

細胞内局在

Cell membrane. Cell projection. In neurite terminals.

画像



12.5% SDS-PAGE image showing ab114304 Stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Nav1.7 protein
(ab114304)

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