

Product datasheet

Recombinant Human Nav1.6/SCN8A protein ab152670

[1 Image](#)

Description

Product name	Recombinant Human Nav1.6/SCN8A protein	
Expression system	Wheat germ	
Accession	<u>Q9UQD0</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	RVLGDSGELDILRQQMEERFVASNPSKVSYPITTLRRK QEEVSAVVLQ RAYRGHLARRGFICKKTTSNKLENGGTHREKKESTPSTAS LPSYDSVT	
Predicted molecular weight	37 kDa including tags	
Amino acids	1854 to 1951	

Specifications

Our **Abpromise guarantee** covers the use of **ab152670** in the following tested applications.

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

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	This product was previously labelled as Nav1.6.

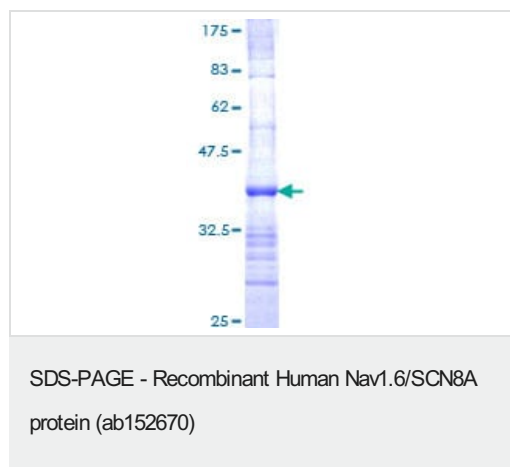
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

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. In macrophages and melanoma cells, isoform 5 may participate in the control of podosome and invadopodia formation.
Tissue specificity	Isoform 5 is expressed in non-neuronal tissues, such as monocytes/macrophages.
Sequence similarities	Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.6/SCN8A subfamily. Contains 1 IQ domain.
Domain	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.
Post-translational modifications	May be ubiquitinated by NEDD4L; which would promote its endocytosis.
Cellular localization	Membrane and Cytoplasmic vesicle. Some vesicles are localized adjacent to melanoma invadopodia and macrophage podosomes. Does not localize to the plasma membrane.

Images



12.5% SDS-PAGE analysis of ab152670 stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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