

# Nav1.6 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51970

## Product Information

Application	WB
Primary Accession	<a href="#">Q9UQD0</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	225280

## Additional Information

Gene ID	6334
Other Names	Sodium channel protein type 8 subunit alpha, Sodium channel protein type VIII subunit alpha, Voltage-gated sodium channel subunit alpha Nav16, SCN8A, MED
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	SCN8A ( <a href="#">HGNC:10596</a> )
Synonyms	MED
Function	Pore-forming subunit of a voltage-gated sodium channel complex assuming opened or closed conformations in response to the voltage difference across membranes and through which sodium ions selectively pass along their electrochemical gradient (PubMed: <a href="#">24874546</a> , PubMed: <a href="#">25239001</a> , PubMed: <a href="#">25725044</a> , PubMed: <a href="#">26900580</a> , PubMed: <a href="#">29726066</a> , PubMed: <a href="#">33245860</a> , PubMed: <a href="#">36696443</a> , PubMed: <a href="#">36823201</a> ). Contributes to neuronal excitability by regulating action potential threshold and propagation (PubMed: <a href="#">24874546</a> , PubMed: <a href="#">25239001</a> , PubMed: <a href="#">25725044</a> , PubMed: <a href="#">26900580</a> , PubMed: <a href="#">29726066</a> , PubMed: <a href="#">33245860</a> , PubMed: <a href="#">36696443</a> , PubMed: <a href="#">36823201</a> ).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, axon {ECO:0000250 UniProtKB:Q9WTU3}. Note=Mainly localizes to the axon initial segment. {ECO:0000250 UniProtKB:Q9WTU3}

**Tissue Location**

Expressed in the hippocampus with increased expression in epileptic tissue compared to normal adjacent tissue (at protein level) (PubMed:28842554).

**Background**

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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.

**References**

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Plummer N.W.,et al.Genomics 54:287-296(1998).  
Carrithers M.D.,et al.J. Biol. Chem. 284:8114-8126(2009).  
Lin C.,et al.Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.  
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