

Rabbit anti-Human SCN3A Polyclonal Antibody | anti-SCN3A antibody

SCN3A Antibody

CATALOG # AAA323349	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

SCN3A; Polyclonal Antibody; SCN3A Antibody; brain III voltage-gated sodium channel; NAC3; Nav1.3; SCN3A_HUMAN; Sodium channel protein brain III subunit alpha; Sodium channel protein type 3 subunit alpha; Sodium channel protein type III subunit alpha; Sodium channel protein; brain III subunit alpha; sodium channel; brain type III; alpha subunit; neuronal type III; voltage-gated; type III; alpha polypeptide; Voltage gated sodium channel subtype III; Voltage gated sodium channel subunit alpha Nav1.3; Voltage-gated sodium channel subtype III; Voltage-gated sodium channel subunit alpha Nav1.3; anti-SCN3A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	SCN3A antibody detects endogenous levels of total SCN3A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1951
Applicable Applications for anti-SCN3A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Conjugation	Unconjugated

IMAGES



WB (Western Blot)

Western blot analysis of SCN3A expression in HEK293 cells. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA323349 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SCN3A antibody	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. Subunit Structure: Heterooligomer of a large alpha subunit and 2-3 smaller beta subunits. Heterooligomer with SCN2B or SCN4B; disulfide-linked. Interacts with NEDD4L (PubMed:15548568). Interacts with the conotoxin GVIIJ (PubMed:24497506). Post-translational Modifications: May be ubiquitinated by NEDD4L; which would promote its endocytosis. Phosphorylation at Ser-1501 by PKC in a highly conserved cytoplasmic loop slows inactivation of the sodium channel and reduces peak sodium currents. Similarity: 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. Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.3/SCN3A subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126362947
NCBI GeneID	6328
NCBI Accession #	NP_001075145.1
NCBI GenBank Nucleotide #	NM_001081676.1
UniProt Accession #	Q9NY46; Q16142; Q53SX0; Q9BZB3; Q9C006; Q9NYK2; Q9P2J1; Q9UPD1; Q9Y6P4
Molecular Weight	Observed: 226 kDa Predicted: 227 kDa
NCBI Official Full Name	sodium channel protein type 3 subunit alpha isoform 2
NCBI Official Synonym Full Names	sodium voltage-gated channel alpha subunit 3
NCBI Official Symbol	SCN3A
NCBI Official Synonym Symbols	NAC3; EIEE62; FFEVF4; Nav1.3
NCBI Protein Information	sodium channel protein type 3 subunit alpha
UniProt Protein Name	Sodium channel protein type 3 subunit alpha
UniProt Gene Name	SCN3A
UniProt Synonym Gene Names	KIAA1356; NAC3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.