

Rabbit Na⁺ CP type II alpha Polyclonal Antibody | anti-SCN2A antibody

Na⁺ CP type II alpha Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327532	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Na⁺ CP type II alpha; Polyclonal Antibody; Na⁺ CP type II alpha Antibody; HBSC II; NAC2; Scn2a; SCN2A_HUMAN; SCN2A1; SCN2A2; Sodium channel protein brain II subunit alpha; Sodium channel protein type 2 subunit alpha; Sodium channel protein type II subunit alpha; Sodium channel protein; brain II subunit alpha; Voltage gated sodium channel subunit alpha Nav1.2; Voltage-gated sodium channel subunit alpha Nav1.2; anti-SCN2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Na ⁺ CP type II alpha antibody detects endogenous levels of total Na ⁺ CP type II alpha
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	2005
Applicable Applications for anti-SCN2A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Na ⁺ CP type II alpha
Subcellular Location	Membrane.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (92%), Horse (92%), Sheep (100%), Rabbit (83%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis Na⁺ CP type II alpha using Jurkat whole cell lysates



IHC (Immunohistochemistry)

AAA327532 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-SCN2A 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 a smaller beta subunit. Heterooligomer with SCN2B or SCN4B; disulfide-linked. Interacts with NEDD4L. Interacts with CALM. Interacts with the conotoxin GVIIJ (PubMed:24497506). Interacts with the conotoxin GVIIJ (PubMed:24497506). Interacts with the spider beta/delta-theraphotoxin-Pre1a (PubMed:28428547). Post-translational Modifications: May be ubiquitinated by NEDD4L; which would promote its endocytosis. Phosphorylation at Ser-1506 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. Nav1.2/SCN2A subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	93141212
NCBI GeneID	6326
NCBI Accession #	NP_001035232.1
NCBI GenBank Nucleotide #	NM_001040142.1
UniProt Accession #	Q99250; Q14472; Q53T77; Q9BZC9; Q9BZD0; A6NC14; A6NIQ5
Molecular Weight	Observed: 227 kDa Predicted: 228 kDa
NCBI Official Full Name	sodium channel protein type 2 subunit alpha isoform 1
NCBI Official Synonym Full Names	sodium voltage-gated channel alpha subunit 2
NCBI Official Symbol	SCN2A
NCBI Official Synonym Symbols	HBA; NAC2; BFIC3; BFIS3; BFNIS; HBSCI; EIEE11; HBSCII; Nav1.2; SCN2A1; SCN2A2; Na(v)1.2
NCBI Protein Information	sodium channel protein type 2 subunit alpha
UniProt Protein Name	Sodium channel protein type 2 subunit alpha
UniProt Gene Name	SCN2A
UniProt Synonym Gene Names	NAC2; SCN2A1; SCN2A2

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.