

Scn1a Polyclonal Antibody | anti-SCN1A antibody

Anti-Scn1a Antibody

CATALOG # AAA46428	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Scn1a; Polyclonal Antibody; Anti-Scn1a Antibody; Sodium channel protein type 1 subunit alpha; brain sodium channel type I; EIEE6; FEB3; FEB3A; FHM3; GEFS+2; GEFSP2; HBSC I; HBSCI; NAC1; Nav 1.1; RBI; SCN1; SCN1A_HUMAN; SMEI; Sodium channel protein brain I alpha subunit; Sodium channel protein brain I subunit alpha; Sodium channel protein type I subunit alpha; Sodium channel voltage gated type 1 alpha subunit; Sodium channel voltage gated type I alpha polypeptide; Voltage-gated sodium channel subunit alpha Nav1.1; sodium voltage-gated channel alpha subunit 1; anti-SCN1A antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	2009
Applicable Applications for anti-SCN1A antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Scn1a (1981-2009aa ACPPSYDRVTKPIVEKHEQEGKDEKAKGK), identical to the related rat sequence.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Western blot analysis of Scn1a expression in rat brain extract (lane 1), mouse brain extract (lane 2) and U87 whole cell lysates (lane 4). Scn1a at 250KD was detected using rabbit anti-Scn1a Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-SCN1A antibody	Description: Rabbit IgG polyclonal antibody for Sodium channel protein type 1 subunit alpha(SCN1A) detection. Tested with WB in Human;Mouse;Rat. Background: Nav1.1, also known as the sodium channel, voltage-gated, type I, alpha subunit (SCN1A), is a protein which in humans is encoded by the SCN1A gene. Voltage-dependent sodium channels are heteromeric complexes that regulate sodium exchange between intracellular and extracellular spaces and are essential for the generation and propagation of action potentials in muscle cells and neurons. Each sodium channel is composed of a large pore-forming, glycosylated alpha subunit and two smaller beta subunits. This gene encodes a sodium channel alpha subunit, which has four homologous domains, each of which contains six transmembrane regions. Allelic variants of this gene are associated with generalized epilepsy with febrile seizures and epileptic encephalopathy. Alternative splicing results in multiple transcript variants. The RefSeq Project has decided to create four representative RefSeq records. Three of the transcript variants are supported by experimental evidence and the fourth contains alternate 5' untranslated exons, the exact combination of which have not been experimentally confirmed for the full-length transcript.
References	1. "Entrez Gene: SCN1A sodium channel, voltage-gated, type I, alpha subunit". 2. Ito M, Nagafuji H, Okazawa H, Yamakawa K, Sugawara T, Mazaki-Miyazaki E, Hirose S, Fukuma G, Mitsudome A, Wada K, Kaneko S (Jan 2002). "Autosomal dominant epilepsy with febrile seizures plus with missense mutations of the (Na⁺)-channel alpha 1 subunit gene, SCN1A". Epilepsy Research 48 (1-2): 15-23. 3. Malo MS, Blanchard BJ, Andresen JM, Srivastava K, Chen XN, Li X, Jabs EW, Korenberg JR, Ingram VM (1994). "Localization of a putative human brain sodium channel gene (SCN1A) to chromosome band 2q24". Cytogenetics and Cell Genetics 67 (3): 178-86.

NCBI AND UNIPROT INFORMATION

NCBI GI #	260166633
NCBI GeneID	6323
NCBI Accession #	NP_001159435.1
NCBI GenBank Nucleotide #	NM_001165963.1
UniProt Accession #	P35498; Q16172; Q585T7; Q8IUJ6; Q96LA3; Q9C008; E9PG49
Molecular Weight	226,174 Da
NCBI Official Full Name	sodium channel protein type 1 subunit alpha isoform 1
NCBI Official Synonym Full Names	sodium voltage-gated channel alpha subunit 1
NCBI Official Symbol	SCN1A
NCBI Official Synonym Symbols	FEB3; FHM3; NAC1; SCN1; SMEI; EIEE6; FEB3A; HBSCI; GEFSP2; Nav1.1
NCBI Protein Information	sodium channel protein type 1 subunit alpha
UniProt Protein Name	Sodium channel protein type 1 subunit alpha
UniProt Gene Name	SCN1A
UniProt Synonym Gene Names	NAC1; SCN1
UniProt Entry Name	SCN1A_HUMAN

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.