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Datasheet for ABIN3044542
anti-SCN1A antibody (C-Term)

1 Image

Overview

Quantity:	100 µg
Target:	SCN1A
Binding Specificity:	AA 1981-2009, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCN1A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Sodium channel protein type 1 subunit alpha(SCN1A) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Scn1a (1981-2009aa ACPPSYDRVTKPIVEKHEQEGKDEKAKGK), identical to the related rat sequence.
Sequence:	ACPPSYDRVT KPIVEKHEQE GKDEKAKGK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Sodium channel protein type 1 subunit alpha(SCN1A) detection. Tested with WB in Human,Mouse,Rat. Gene Name: sodium voltage-gated channel alpha subunit 1 Protein Name: Sodium channel protein type 1 subunit alpha

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: SCN1A

Alternative Name: SCN1A ([SCN1A Products](#))

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.

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

Gene ID: 6323

UniProt: [P35498](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
Notes: Tested Species: Species with positive results.

Application Details

Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

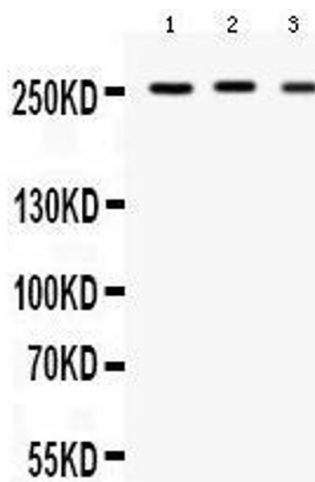
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. 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 µg/mL. The blot was developed using chemiluminescence (ECL) method