abcam

# Product datasheet

# Anti-Scn1a antibody, prediluted ab45058

画像数 1

## 製品の概要

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| **製品名** | Anti-Scn1a antibody, prediluted |
| **製品の詳細** | Rabbit polyclonal to Scn1a, prediluted |
| **由来種** | Rabbit |
| **特異性** | This antibody recognizes the alpha subunit of type I voltage-gated sodium channel. |
| **アプリケーション** | **適用あり:** IHC-P |
| **種交差性** | **交差種:** Human<br>**交差が予測される動物種:** Mouse, Rat, Zebrafish |
| **免疫原** | Synthetic peptide. This information is considered to be commercially sensitive. |
| **ポジティブ・コントロール** | Human cerebellum |

## 製品の特性

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| **製品の状態** | Prediluted |
| **保存方法** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **バッファー** | Preservative: 0.1% Sodium Azide<br>Constituents: 1% BSA, 50mM Tris HCl, 0.05% Green colour (for colour code) |
| **精製度** | Protein A purified |
| **ポリ/モノ** | ポリクローナル |
| **アイソタイプ** | IgG |

## アプリケーション

Our Abpromise guarantee covers the use of **ab45058** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| IHC-P | | |

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| **追加情報** | IHC-P: Ready-to-use for 30 min at RT. |

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

## ターゲット情報

**機能**

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.

**関連疾患**

Defects in SCN1A are the cause of generalized epilepsy with febrile seizures plus type 2 (GEFS+2) [MIM:604233]. Generalized epilepsy with febrile seizures-plus refers to a rare autosomal dominant, familial condition with incomplete penetrance and large intrafamilial variability. Patients display febrile seizures persisting sometimes beyond the age of 6 years and/or a variety of afebrile seizure types. GEFS+ is a disease combining febrile seizures, generalized seizures often precipitated by fever at age 6 years or more, and partial seizures, with a variable degree of severity.
Defects in SCN1A are a cause of severe myoclonic epilepsy in infancy (SMEI) [MIM:607208]; also called Dravet syndrome. SMEI is a rare disorder characterized by generalized tonic, clonic, and tonic-clonic seizures that are initially induced by fever and begin during the first year of life. Later, patients also manifest other seizure types, including absence, myoclonic, and simple and complex partial seizures. Psychomotor development delay is observed around the second year of life. SMEI is considered to be the most severe phenotype within the spectrum of generalized epilepsies with febrile seizures-plus.
Defects in SCN1A are a cause of intractable childhood epilepsy with generalized tonic-clonic seizures (ICEGTC) [MIM:607208]. ICEGTC is a disorder characterized by generalized tonic-clonic seizures beginning usually in infancy and induced by fever. Seizures are associated with subsequent mental decline, as well as ataxia or hypotonia. ICEGTC is similar to SMEI, except for the absence of myoclonic seizures.
Defects in SCN1A are the cause of migraine familial hemiplegic type 3 (FHM3) [MIM:609634]. FHM3 is an autosomal dominant severe subtype of migraine with aura characterized by some degree of hemiparesis during the attacks. The episodes are associated with variable features of nausea, vomiting, photophobia, and phonophobia. Age at onset ranges from 6 to 15 years. FHM is occasionally associated with other neurologic symptoms such as cerebellar ataxia or epileptic seizures. A unique eye phenotype of elicited repetitive daily blindness has also been reported to be cosegregating with FHM in a single Swiss family.
Defects in SCN1A are the cause of familial febrile convulsions type 3A (FEB3A) [MIM:604403]; also known as familial febrile seizures 3. Febrile convulsions are seizures associated with febrile episodes in childhood without any evidence of intracranial infection or defined pathologic or traumatic cause. It is a common condition, affecting 2-5% of children aged 3 months to 5 years. The majority are simple febrile seizures (generally defined as generalized onset, single seizures with a duration of less than 30 minutes). Complex febrile seizures are characterized by focal onset, duration greater than 30 minutes, and/or more than one seizure in a 24 hour period. The likelihood of developing epilepsy following simple febrile seizures is low. Complex febrile seizures are associated with a moderately increased incidence of epilepsy.

**配列類似性**

Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.1/SCN1A subfamily.

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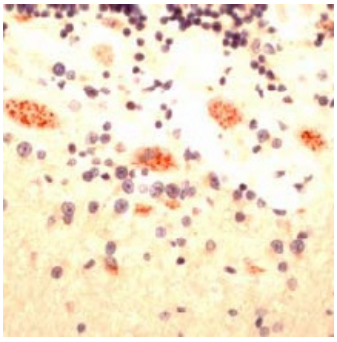
| | Contains 1 IQ domain. |
| **ドメイン** | The sequence contains 4 internal repeats, each with 5 hydrophobic segments (S1,S2,S3,S5,S6) and one positively charged segment (S4). Segments S4 are probably the voltage-sensors and are characterized by a series of positively charged amino acids at every third position. |
| **細胞内局在** | Membrane. |

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Scn1a antibody, prediluted (ab45058)

Ab45058 staining human Voltage gated sodium channel type I in human cerebellum by immunohistochemistry using formalin fixed, paraffin embedded tissue.



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