

Product datasheet

Anti-Nav1.5 antibody ab56240

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製品の概要

製品名	Anti-Nav1.5 antibody
製品の詳細	Rabbit polyclonal to Nav1.5
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Chimpanzee, Zebrafish 
免疫原	A region within synthetic peptide: FTKRVLGESG EMDALKIQME EKFM AANPSK ISYEPITTL RRKHEEVSAM, corresponding to amino acids 1857-1906 of Human Nav1.5 Run BLAST with ExPASy Run BLAST with NCBI
ポジティブ・コントロール	SW620 cell lysate and Human skin tissue.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
精製度	Immunogen affinity 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 **ab56240** 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
WB		Use a concentration of 0.25 µg/ml. Detects a band of approximately 168 kDa (predicted molecular weight: 227 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
IHC-P		Use a concentration of 4 - 8 µg/ml.
ICC/IF		Use at an assay dependent concentration. PubMed: 20651255

ターゲット情報

機能	<p>This protein 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. It is a tetrodotoxin-resistant Na⁽⁺⁾ channel isoform. This channel is responsible for the initial upstroke of the action potential.</p>
組織特異性	<p>Found in jejunal circular smooth muscle cells (at protein level). Expressed in human atrial and ventricular cardiac muscle but not in adult skeletal muscle, brain, myometrium, liver, or spleen. Isoform 4 is expressed in brain.</p>
関連疾患	<p>Defects in SCN5A are a cause of progressive familial heart block type 1A (PFHB1A) [MIM:113900]; also known as Lenegre-Lev disease or progressive cardiac conduction defect (PCCD). PFHB1A is an autosomal dominant cardiac bundle branch disorder that may progress to complete heart block. PFHB1A is characterized by progressive alteration of cardiac conduction through the His-Purkinje system with right or left bundle branch block and widening of QRS complexes, leading to complete atrio-ventricular block and causing syncope and sudden death.</p> <p>Defects in SCN5A are the cause of long QT syndrome type 3 (LQT3) [MIM:603830]. Long QT syndromes are heart disorders characterized by a prolonged QT interval on the ECG and polymorphic ventricular arrhythmias. They cause syncope and sudden death in response to exercise or emotional stress. LQT3 inheritance is an autosomal dominant.</p> <p>Defects in SCN5A are the cause of Brugada syndrome type 1 (BRS1) [MIM:601144]. BRS1 is an autosomal dominant tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset.</p> <p>Defects in SCN5A are the cause of sick sinus syndrome type 1 (SSS1) [MIM:608567]. The term 'sick sinus syndrome' encompasses a variety of conditions caused by sinus node dysfunction. The most common clinical manifestations are syncope, presyncope, dizziness, and fatigue. Electrocardiogram typically shows sinus bradycardia, sinus arrest, and/or sinoatrial block. Episodes of atrial tachycardias coexisting with sinus bradycardia ('tachycardia-bradycardia syndrome') are also common in this disorder. SSS occurs most often in the elderly associated with underlying heart disease or previous cardiac surgery, but can also occur in the fetus, infant, or child without heart disease or other contributing factors, in which case it is considered to be a congenital disorder.</p> <p>Defects in SCN5A are the cause of ventricular fibrillation paroxysmal familial type 1 (VF1) [MIM:603829]. A cardiac arrhythmia marked by fibrillary contractions of the ventricular muscle due to rapid repetitive excitation of myocardial fibers without coordinated contraction of the</p>

ventricle and by absence of atrial activity.

Defects in SCN5A can be a cause of sudden infant death syndrome (SIDS) [MIM:272120]. SIDS is the sudden death of an infant younger than 1 year that remains unexplained after a thorough case investigation, including performance of a complete autopsy, examination of the death scene, and review of clinical history. Pathophysiologic mechanisms for SIDS may include respiratory dysfunction, cardiac dysrhythmias, cardiorespiratory instability, and inborn errors of metabolism, but definitive pathogenic mechanisms precipitating an infant sudden death remain elusive. Long QT syndromes-associated mutations can be responsible for some of SIDS cases. Defects in SCN5A may be a cause of familial atrial standstill (FAS) [MIM:108770]. Atrial standstill is an extremely rare arrhythmia, characterized by the absence of electrical and mechanical activity in the atria. Electrocardiographically, it is characterized by bradycardia, the absence of P waves, and a junctional narrow complex escape rhythm.

Defects in SCN5A are the cause of cardiomyopathy dilated type 1E (CMD1E) [MIM:601154]; also known as dilated cardiomyopathy with conduction disorder and arrhythmia or dilated cardiomyopathy with conduction defect 2. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

配列類似性

Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.5/SCN5A subfamily.
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.

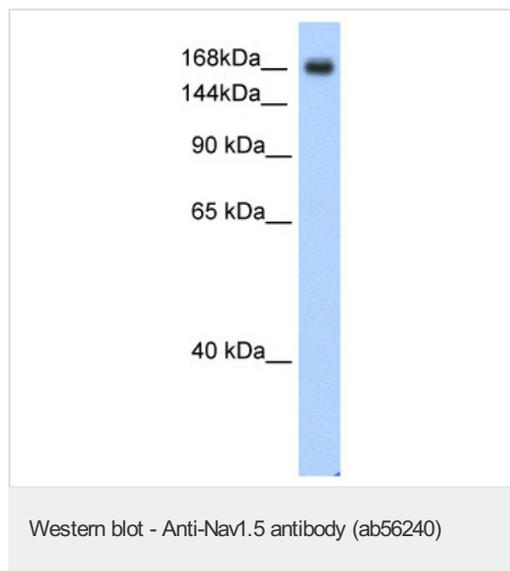
翻訳後修飾

Ubiquitinated by NEDD4L; which promotes its endocytosis. Does not seem to be ubiquitinated by NEDD4 or WWP2.

細胞内局在

Membrane.

画像



Anti-Nav1.5 antibody (ab56240) at 0.25 µg/ml
+ SW620 cell lysate at 10 µg

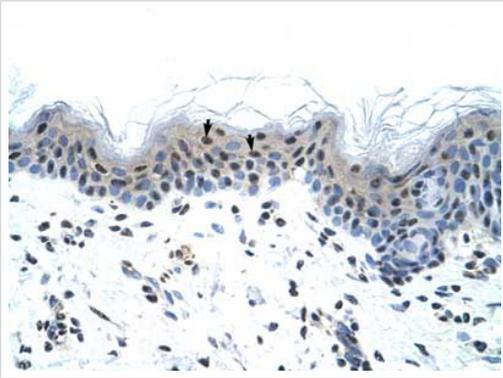
Secondary

HRP conjugated anti-Rabbit IgG at 1/50000
dilution

Predicted band size: 227 kDa

Observed band size: 168 kDa

Gel concentration: 8%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nav1.5 antibody (ab56240)

ab56240 (4 μ g/ml) staining Human Nav1.5 in skin tissue by immunohistochemistry on paraffin embedded tissue. The arrows indicate positively stained squamous epithelial cells. Magnification 400X.

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