Datasheet for ABIN2483067

anti-Nav1.8 antibody (AA 1724-1956) (PerCP)

4 Images

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Overview

Quantity:	100 µg
Target:	Nav1.8 (SCN10A)
Binding Specificity:	AA 1724-1956
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nav1.8 antibody is conjugated to PerCP
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 1724-1956 of rat Nav1.8
Clone:	S134
Isotype:	IgG2a
Specificity:	Detects ~220 kDa. No cross reactivity against other Nav channels.
Cross-Reactivity:	Human, Monkey, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	Nav1.8 (SCN10A)

Target Details

Alternative Name:	Nav1.8 (SCN10A Products)
Background:	Nav1.8 is a voltage-gated sodium channel and plays a critical role in the generation and conduction of action potentials and is thus important for electrical signaling by most excitable cells. Therapeutically, the association of pain insensitivity with the loss of function of a certain sodium channel may have implications. Since Nav1.8 is not present in cardiac muscle or neurons in the central nervous system, blockers of Nav1.8 will not have direct action on these cells and thus can have less side effects than current pain medications. By performing more studies, there is a possibility to develop a new generation of drugs that can reduce the pain intensity in animals.
Gene ID:	29571
NCBI Accession:	NP_058943
UniProt:	Q62968

Application Details

Application Notes:	• WB (1:1000) • IHC (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2483067 was sufficient for detection of Nav1.8 in 10 µg of COS cell lysate transiently expressing Nav1.8 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

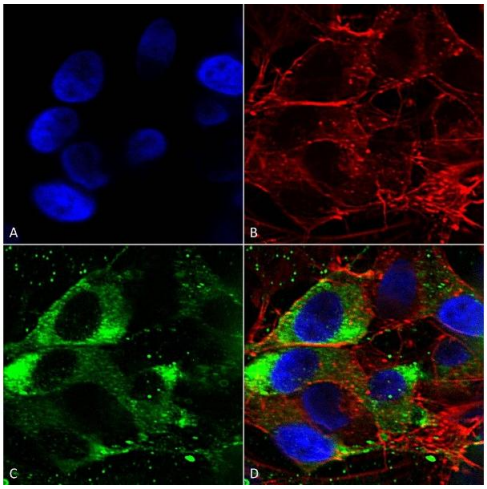
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

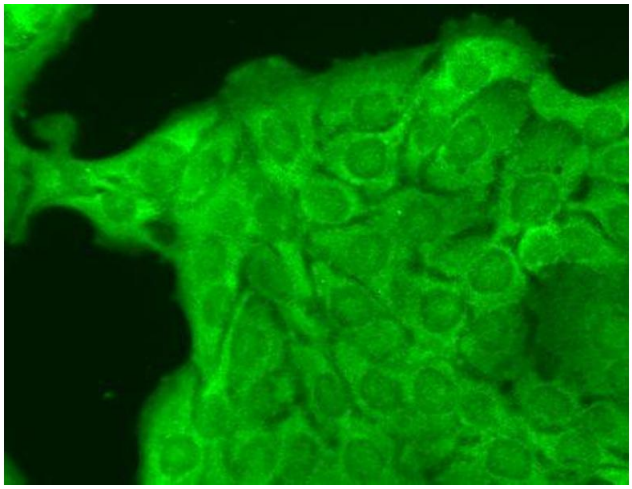
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



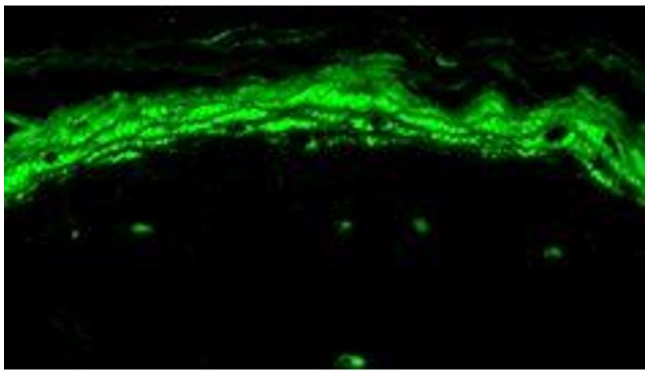
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134 (ABIN2483067). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody (ABIN2483067) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Nav1.8 Antibody (D) Composite.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134-12 . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Cytoplasmic staining and some dull nuclear staining.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134-12 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Heavy filaggrin-like staining, lower epidermal cells have some staining.

Please check the product details page for more images. Overall 4 images are available for ABIN2483067.