



Datasheet for ABIN2485585

## anti-SCN3B antibody (AA 1-215) (APC)



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### 3 Images

#### Overview

Quantity:	100 µg
Target:	SCN3B
Binding Specificity:	AA 1-215
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SCN3B antibody is conjugated to APC
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

#### Product Details

Immunogen:	Fusion protein amino acids 1-215 (full-length) of rat NavBeta3
Clone:	S396-29
Isotype:	IgG2b
Specificity:	Detects ~40 kDa. Does not cross-react with NavBeta1, Navbeta2, or Navbeta4.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

#### Target Details

Target:	SCN3B
Alternative Name:	Navbeta3 ( <a href="#">SCN3B Products</a> )

## Target Details

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**Background:** Nav Beta 3 (SCN3B) belongs to the voltage-gated sodium channel group, and modulates channel gating kinetics. It inactivates the sodium channel opening more slowly than its Beta1 subunit. It is also unique in causing persistent sodium currents which are thought to amplify summation of synaptic inputs which is likely to increase the excitability of specific neurons to their individual inputs (2). Its association with neurofascin may target the sodium channels to the nodes of Ranvier of developing axons and retain these channels at the nodes in mature myelinated axons (1, 2). Defects in SCN3B are the cause of Brugada syndrome (3).

**Gene ID:** 245956

**NCBI Accession:** [NP\\_620797](#)

**UniProt:** [Q9JK00](#)

## Application Details

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**Application Notes:**

- WB (1:1000)
- ICC/IF (1:100)
- optimal dilutions for assays should be determined by the user.

**Comment:** A 1:100 dilution of ABIN2485585 was sufficient for detection of NavBeta3 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 mg/mL

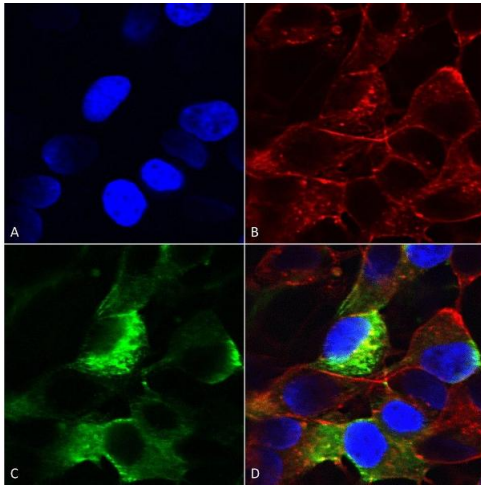
**Buffer:** PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated

**Preservative:** Sodium azide

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

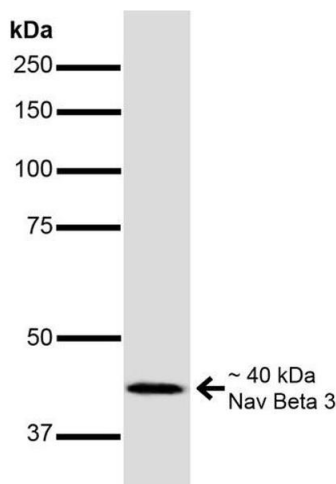
**Storage:** 4 °C

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



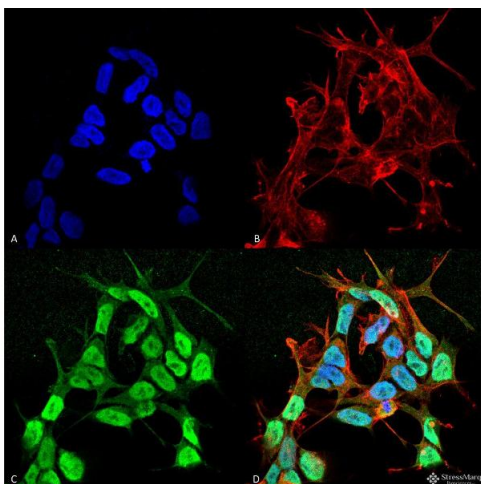
### Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav beta3 Monoclonal Antibody, Clone S396-29 (ABIN2485585). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Nav beta3 Monoclonal Antibody (ABIN2485585) at 1:200 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) Nav beta3 Antibody (D) Composite.



### Western Blotting

**Image 2.** Western Blot analysis of Mouse Brain showing detection of ~40 kDa Nav Beta 3 protein using Mouse Anti-Nav Beta 3 Monoclonal Antibody, Clone S396-29 . Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20 µg. Primary Antibody: Mouse Anti-Nav Beta 3 Monoclonal Antibody at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~40 kDa.



### Immunofluorescence (fixed cells)

**Image 3.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav beta 3 Monoclonal Antibody, Clone S396-29 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Nav beta 3 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Nucleus. Magnification: 60X.

(A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Nav beta 3 Antibody (D) Composite.