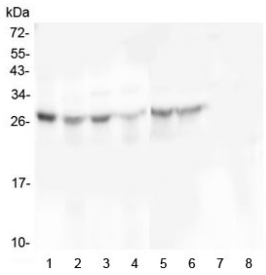
SCN4B Antibody (RQ4934)

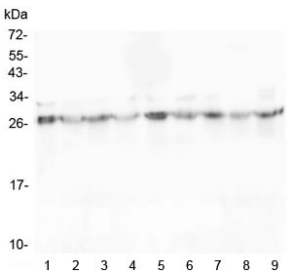
Catalog No.	Formulation	Size
RQ4934	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

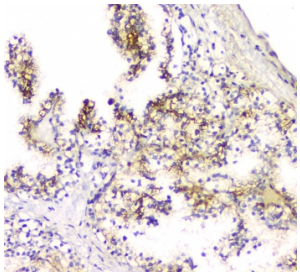
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q8IWT1
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This SCN4B antibody is available for research use only.



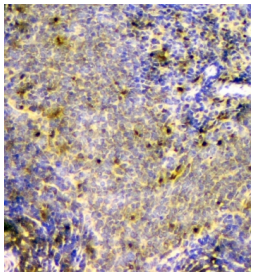
Western blot testing of 1) human placenta, 2) human U-87 MG, 3) monkey COS-7, 4) human U-2 OS, 5) human HEK293, 6) human SHG-44, 7) human K562 and 8) human HL-60 cell lysate with SCN4B antibody at 0.5ug/ml. Predicted molecular weight: 25-38 kDa depending on level of glycosylation.



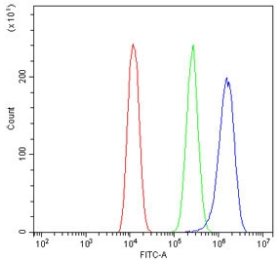
Western blot testing of 1) rat brain, 2) rat heart, 3) rat spleen, 4) rat kidney, 5) mouse brain, 6) mouse heart, 7) mouse spleen, 8) mouse kidney and 9) mouse Neuro-2a lysate with SCN4B antibody at 0.5ug/ml. Predicted molecular weight: 25-38 kDa depending on level of glycosylation.



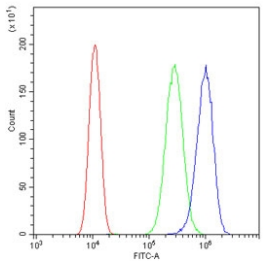
IHC staining of FFPE human renal cancer with SCN4B antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE rat spleen with SCN4B antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Flow cytometry testing of human U-2 OS cells with SCN4B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SCN4B antibody.



Flow cytometry testing of human SiHa cells with SCN4B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SCN4B antibody.

Description

Sodium channel beta-subunit 4, also known as SCN4B, is a protein that in humans is encoded by the SCN4B gene. The protein encoded by this gene is one of several sodium channel beta subunits. These subunits interact with voltage-gated alpha subunits to change sodium channel kinetics. The encoded transmembrane protein forms interchain disulfide bonds with SCN2A. Defects in this gene are a cause of long QT syndrome type 10 (LQT10). Three protein-coding and one non-coding transcript variant have been found for this gene.

Application Notes

Optimal dilution of the SCN4B antibody should be determined by the researcher.

Immunogen

Amino acids LRDLEFSDTGKYTCHVKNPKENNLQHHATIFLQ from the human protein were used as the immunogen for the SCN4B antibody.

Storage

After reconstitution, the SCN4B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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