

Anti-SCN7A Antibody

Catalog # AP54104

Product Information

Application	WB, IF/IC
Primary Accession	Q01118
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	193493

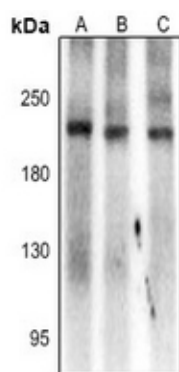
Additional Information

Gene ID	6332
Other Names	SCN6A; Sodium channel protein type 7 subunit alpha; Putative voltage-gated sodium channel subunit alpha Nax; Sodium channel protein cardiac and skeletal muscle subunit alpha; Sodium channel protein type VII subunit alpha
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SCN7A. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

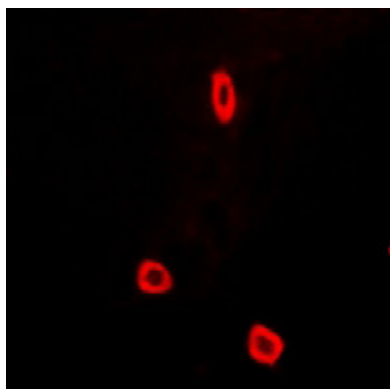
Protein Information

Name	SCN7A (HGNC:10594)
Function	Sodium leak channel functioning as an osmosensor regulating sodium ion levels in various tissues and organs. While most sodium channels are voltage-gated, SCN7A is not and lets sodium flow through membrane along its concentration gradient (PubMed: 26537257 , PubMed: 35301303). In glial cells of the central nervous system, senses body-fluid sodium levels and controls salt intake behavior as well as voluntary water intake through activation of nearby neurons to maintain appropriate sodium levels in the body (By similarity). By mediating sodium influx into keratinocytes, also plays a role in skin barrier homeostasis (PubMed: 26537257).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Heart and uterus..

Images



Western blot analysis of SCN7A expression in A549 (A), NIH3T3 (B), H9C2 (C) whole cell lysates. (Predicted band size: 193 kD; Observed band size: 230 kD)



Immunofluorescent analysis of SCN7A staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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