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[Marker Primary Antibody]

Rabbit Anti-SCN10A/Nav1.8/Cy3 Conjugated antibody

Catalog Number: SL6685R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SCN10A/Nav1.8/Cy3
Immunogen:	KLH conjugated synthetic peptide derived from human SCN10A/NAV1.8
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow)
Background:	background: Nav1.8 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, Nav1.8 forms a sodium-selective channel through which sodium ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin-resistant sodium channel isoform. Nav1.8 plays a role in neuropathic pain mechanisms. **Function:** 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 sodium ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin-resistant sodium channel isoform. Its electrophysiological properties vary depending on the type of the associated beta subunits (in vitro). Plays a role in neuropathic pain mechanisms. **Subunit:** The voltage-resistant sodium channel consists of an ion conducting

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	pore forming alpha-subunit regulated by one or more associated auxiliary subunits SCN1B, SCN2B and SCN3B. Found in a number of complexes with PRX, DYNLT1 and PDZD2. Interacts with proteins such as FSTL1, PRX, DYNLT1, PDZD2, S100A10 and many others. Interacts with NEDD4 and NEDD4L. **Subcellular Location:** Membrane; Multi-pass membrane protein. Note=It can be translocated to the extracellular membrane through association with S100A10. **Tissue Specificity:** Expressed in the dorsal root ganglia and sciatic nerve. **Post-translational modifications:** Ubiquitinated by NEDD4L; which promotes its endocytosis. **Similarity:** Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.8/SCN10A subfamily. Contains 1 IQ domain. **Database links:** **Entrez Gene:** 6336 Human **Entrez Gene:** 20264 Mouse **Entrez Gene:** 29571 Rat Omim: 604427 Human **SwissProt:** Q9Y5Y9 Human **SwissProt:** P70276 Mouse **SwissProt:** Q6QIY3 Mouse **SwissProt:** Q62968 Rat **Unigene:** 250443 Human **Unigene:** 10246 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.