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SCN11A Rabbit pAb

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Catalog # AP58486

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UI33
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	204922
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCN11A/NAV1.9
Epitope Specificity	651-750/1797
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Voltage gated sodium channels are membrane protein complexes that play a fundamental role in generating and transmitting action potentials in neuronal cells. SCN11A (Sodium channel, voltage gated, type XI, alpha subunit) mediates the voltage dependent sodium ion permeability and conductance. It forms the pore of the sodium selective channel through which sodium ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin resistant sodium channel isoform.

Additional Information

Gene ID	11280
Other Names	Sodium channel protein type 11 subunit alpha, Peripheral nerve sodium channel 5, PN5, Sensory neuron sodium channel 2, Sodium channel protein type XI subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.9, hNaN, SCN11A (HGNC:10583)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

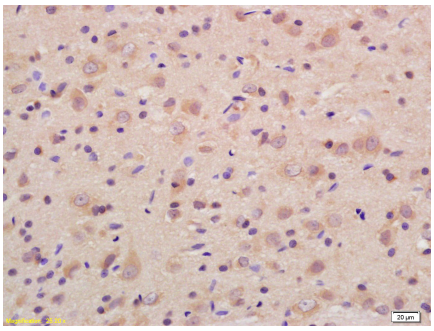
Protein Information

Name	SCN11A (HGNC:10583)
Function	Sodium channel mediating 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 (PubMed:10580103, PubMed:12384689, PubMed:24036948, PubMed:24776970, PubMed:25791876, PubMed:26645915). Involved in membrane depolarization during action potential in nociceptors which function as key relay stations for the electrical transmission of pain signals from the periphery to the central nervous system (PubMed:24036948, PubMed:24776970, PubMed:25791876, PubMed:26645915). Also involved in rapid BDNF-evoked neuronal depolarization (PubMed:12384689).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the dorsal root ganglia and trigeminal ganglia, olfactory bulb, hippocampus, cerebellar cortex, spinal cord, spleen, small intestine and placenta.

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Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-SCN11A/NAV1.9 Polyclonal Antibody, Unconjugated(AP58486) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.