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SCN8A/Nav1.6 Rabbit pAb

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Catalog # AP58490

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UQD0
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	225280
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCN8A/Nav1.6
Epitope Specificity	251-314/314
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	Cytoplasm. Cytoplasm, perinuclear region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 Na(+) ions may pass in accordance with their electrochemical gradient. In macrophages and melanoma cells, isoform 5 may participate in the control of podosome and invadopodia formation.

Additional Information

Gene ID	6334
Other Names	Sodium channel protein type 8 subunit alpha, Sodium channel protein type VIII subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.6, SCN8A (HGNC:10596), MED
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.

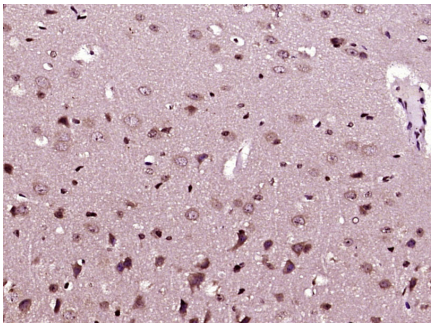
Protein Information

Name	SCN8A (HGNC:10596)
Synonyms	MED
Function	Pore-forming subunit of a voltage-gated sodium channel complex assuming opened or closed conformations in response to the voltage difference across membranes and through which sodium ions selectively pass along their electrochemical gradient (PubMed:24874546, PubMed:25239001, PubMed:25725044, PubMed:26900580, PubMed:29726066, PubMed:33245860, PubMed:36696443, PubMed:36823201). Contributes to neuronal excitability by regulating action potential threshold and propagation (PubMed:24874546, PubMed:25239001, PubMed:25725044, PubMed:26900580, PubMed:29726066, PubMed:33245860, PubMed:36696443, PubMed:36823201).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q9WTU3}. Note=Mainly localizes to the axon initial segment. {ECO:0000250|UniProtKB:Q9WTU3}
Tissue Location	Expressed in the hippocampus with increased expression in epileptic tissue compared to normal adjacent tissue (at protein level) (PubMed:28842554).

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SCN8A/Nav1.6) Polyclonal Antibody, Unconjugated (AP58490) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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