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Anti-Nav1.2 Antibody

Catalog # AP54051

Product Information

Application	WB, IHC
Primary Accession	Q99250
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	227975

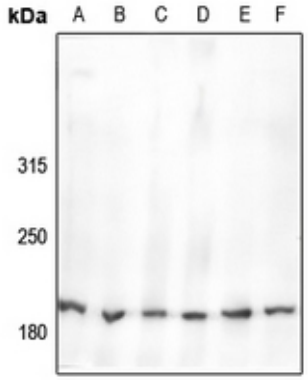
Additional Information

Gene ID	6326
Other Names	NAC2; SCN2A1; SCN2A2; Sodium channel protein type 2 subunit alpha; HBSC II; Sodium channel protein brain II subunit alpha; Sodium channel protein type II subunit alpha; Voltage-gated sodium channel subunit alpha Nav1.2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Nav1.2. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200
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

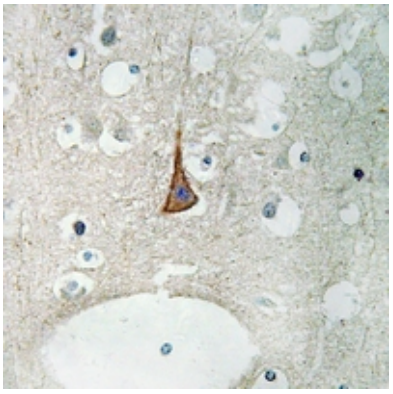
Protein Information

Name	SCN2A (HGNC:10588)
Function	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 (PubMed:1325650, PubMed:17021166, PubMed:28256214, PubMed:29844171). Implicated in the regulation of hippocampal replay occurring within sharp wave ripples (SPW-R) important for memory (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

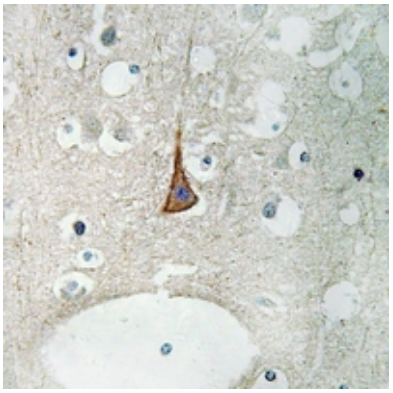
Images



Western blot analysis of Nav1.2 expression in C6 (A), BV2 (B), rat brain (C), mouse brain (D), HEK293T (E), LO2 (F) whole cell lysates. (Predicted band size: 227 kD; Observed band size: 200 kD)



Immunohistochemical analysis of Nav1.2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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