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Anti-Nav1.2 Antibody
Catalog # AP54051

Specification

Anti-Nav1.2 Antibody - Product Information

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

Anti-Nav1.2 Antibody - 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
Recognizes endogenous levels of Nav1.2 protein.

Dilution
WB~~1/500 - 1/1000
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Nav1.2 Antibody - 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).

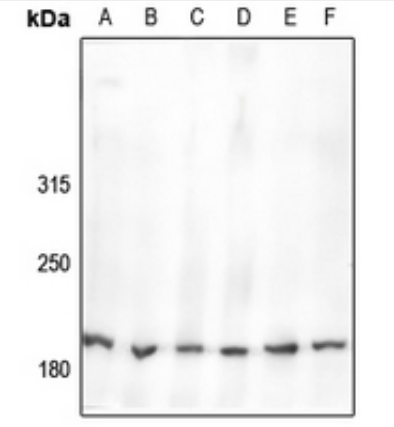
Cellular Location
Cell membrane; Multi-pass membrane protein

Anti-Nav1.2 Antibody - Protocols

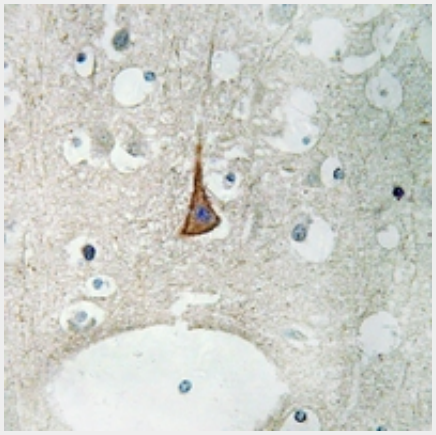
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Nav1.2 Antibody - 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.



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.

Anti-Nav1.2 Antibody - Background

Rabbit polyclonal antibody to Nav1.2