

**Anti-Nav1.2 Antibody**  
**Catalog # AP54051****Specification**

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**Anti-Nav1.2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q99250</a>
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**

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~~1:100~500

**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:<a href="http://www.uniprot.org/citations/1325650" target="\_blank">1325650</a>, PubMed:<a href="http://www.uniprot.org/citations/17021166" target="\_blank">17021166</a>, PubMed:<a href="http://www.uniprot.org/citations/28256214" target="\_blank">28256214</a>, PubMed:<a href="http://www.uniprot.org/citations/29844171" target="\_blank">29844171</a>)

target="\_blank">29844171</a>). Implicated in the regulation of hippocampal replay occurring within sharp wave ripples (SPW-R) important for memory (By similarity).

#### Cellular Location

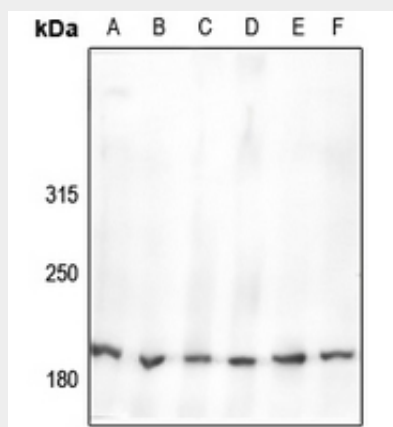
Cell membrane; Multi-pass membrane protein

#### Anti-Nav1.2 Antibody - Protocols

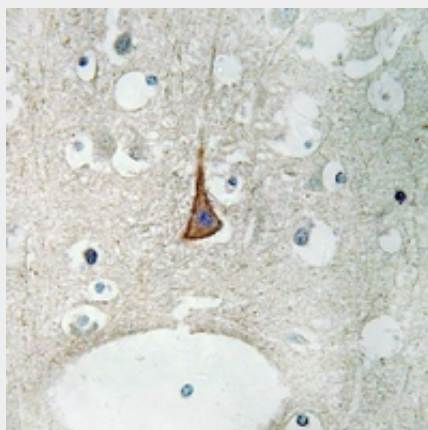
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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