

For Research Use Only

# SCN2A Polyclonal antibody

Catalog Number: 27551-1-AP



## Basic Information

### Catalog Number:

27551-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG26022

### GenBank Accession Number:

NM\_001040142

### GeneID (NCBI):

6326

### UNIPROT ID:

Q99250

### Full Name:

sodium channel, voltage-gated, type II, alpha subunit

### Calculated MW:

228 kDa

### Observed MW:

~250 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IF-P, ELISA

### Species Specificity:

human, mouse

### Positive Controls:

WB : HEK-293 cells,

IF-P : mouse brain tissue,

## Background Information

The Sodium Channel, Voltage-Gated, Type II, Alpha (SCN2A) gene encodes the neuronal sodium channel NaV1.2. There are two major developmentally regulated splice isoforms of NaV1.2 that use mutually exclusive copies of the fifth coding exon and differ by one amino acid at position 209: Asparagine (Asn/N) vs. Aspartic acid (Asp/D). NaV1.2 is one of several sodium channels involved in initiation and propagation of action potentials in neurons. It's widely expressed throughout the human central nervous system, but not in peripheral tissues. (PMID: 29691040)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

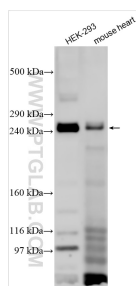
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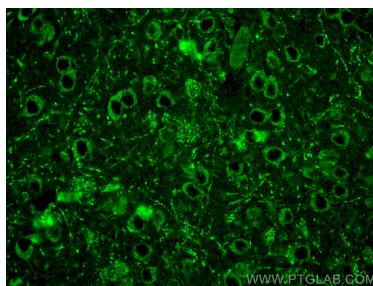
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27551-1-AP (SCN2A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SCN2A antibody (27551-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).