

Product datasheet for **AP07905PU-N**

Nav1.5 (SCN5A) (1548-1558) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	ELISA: 1/32000. Immunohistochemistry on Paraffin Sections: 5 - 10 µg/ml.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region of human SCN5A / Nav1.5 (NP_932173.1; NP_000326.2; NP_001092874.1; NP_001092875.1; NP_001153632.1; NP_001153633.1)
Specificity:	Recognizes Human SCN5A / Nav1.5. This antibody is expected to recognize all reported isoforms (NP_932173.1; NP_000326.2; NP_001092874.1; NP_001092875.1).
Formulation:	Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide State: Aff - Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sodium voltage-gated channel alpha subunit 5
Database Link:	Entrez Gene 6331 Human Q14524



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Background:

Scn5a encodes the alpha subunit of the type V voltage-gated sodium channel. These channels, composed of one alpha and one or two beta subunits, mediate changes in cell permeability to sodium ions that are essential for the generation of action potentials. The alpha subunit alone has been shown to generate a functional channel in vitro, but its kinetic properties are modulated by beta subunits. The type V channel has been shown to be tetrodotoxin-resistant. Scn5a null mice experience intrauterine lethality. Mutations in the SCN5A gene are responsible for several heart conditions, including the chromosome 3-linked form of long QT and Brugada syndrome.

Synonyms:

HB1, HB2, HH1, HBBD, CDCD2, Nav1.5, LQT3

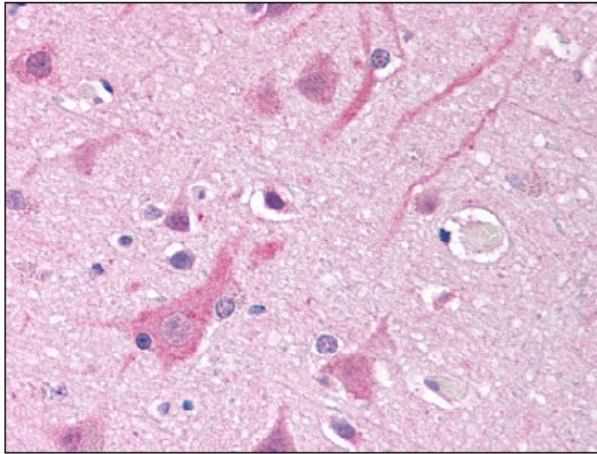
Product images:

Figure 1. Staining SCN5A in Brain, Cortex by Immunohistochemistry using Formalin-Fixed Paraffin-Embedded (FFPE) tissue.