



Anti-SCN5A (aa 1548-1558) polyclonal antibody (CPBT-41175GH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Goat Polyclonal antibody to Human SCN5A.
Antigen Description	The protein encoded by this gene is an integral membrane protein and tetrodotoxin-resistant voltage-gated sodium channel subunit. This protein is found primarily in cardiac muscle and is responsible for the initial upstroke of the action potential in an electrocardiogram. Defects in this gene are a cause of long QT syndrome type 3 (LQT3), an autosomal dominant cardiac disease. Alternative splicing results in several transcript variants encoding different isoforms.
Specificity	Found in jejunal circular smooth muscle cells (at protein level). Expressed in human atrial and ventricular cardiac muscle but not in adult skeletal muscle, brain, myometrium, liver, or spleen. Isoform 4 is expressed in brain.
Immunogen	Synthetic peptide: ETDDQSPEKIN, corresponding to Internal sequence amino acids 1548-1558 of Human Nav1.5
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ICC/IF, WB
Sequence Similarities	Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.5/SCN5A subfamily. Contains 1 IQ domain.
Cellular Localization	Membrane.

Format	Liquid
Size	100 µg
Buffer	Preservative: 0.02% Sodium AzideConstituents: 0.5% BSA, Tris saline, pH 7.3
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	SCN5A sodium channel, voltage-gated, type V, alpha subunit [Homo sapiens]
Official Symbol	SCN5A
Synonyms	SCN5A; sodium channel, voltage-gated, type V, alpha subunit; CMD1E,sodium channel, voltage gated, type V, alpha (long QT syndrome 3); sodium channel protein type 5 subunit alpha; CDCD2; CMPD2; HB1; HB2; HBBD; HH1; ICCD; IVF; long QT syndrome 3; LQT3; Nav1.5; PFHB1; SSS1; CDCD2; CMD1E; CMPD2; HB1; HB2; HH1; IVF; LQT3; Scn5a (gene name); Scn5a; SCN5A_HUMAN; Sodium channel protein cardiac muscle alpha subunit; Sodium channel protein cardiac muscle alpha-subunit; Sodium channel protein cardiac muscle subunit alpha; Sodium channel protein type 5 subunit alpha; Sodium channel protein type V alpha subunit; Sodium channel protein type V subunit alpha; SSS1; Voltage gated sodium channel alpha subunit Nav1.5; Voltage-gated sodium channel alpha subunit Nav1.5; Voltage-gated sodium channel subunit alpha Nav1.5; OTTHUMP00000209279; OTTHUMP00000209280; OTTHUMP00000209281; OTTHUMP00000209282; OTTHUMP00000209283; OTTHUMP00000209284; OTTHUMP00000226268; cardiac sodium channel alpha subunit; sodium channel protein type V alpha subunit; sodium channel protein type V subunit alpha; voltage-gated sodium channel subunit alpha Nav1.5; sodium channel protein cardiac muscle subunit alpha; cardiac tetrodotoxin-insensitive voltage-dependent sodium channel alpha subunit; VF1; CMD1E;
Entrez Gene ID	6331
Protein Refseq	NP_932173
UniProt ID	Q14524
Chromosome Location	3p21
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Interaction between L1 and Ankyrins, organism-specific biosystem; L1CAM interactions, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem.

Function

ion channel activity; protein binding; voltage-gated ion channel activity; voltage-gated sodium channel activity;
