

# Product Information

## MemDX™ Membrane Protein Human SCN5A (Sodium voltage-gated channel alpha subunit 5) for Antibody Discovery

Cat. No.: **MP1105X**

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

This product is a 51.8 kDa Human SCN5A membrane protein expressed in *In vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

SCN5A

#### Protein Length

Full-length

#### Molecular Weight

51.8 kDa

#### TMD

24

#### Sequence

MANFLLPRGTSSFRRFTRESLAAIEKRMAEKQARGSTTLQESREGLPEEEAPRPQLDLQASKKLPDLYGNPPQELIGEPLEDLDPFY

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*In vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

**Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

SCN5A

**Full Name**

Sodium voltage-gated channel alpha subunit 5

**Introduction**

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.

**Alternative Names**

HB1; HB2; HH1; IVF; VF1; HBBD; ICCD; LQT3; SSS1; CDCD2; CMD1E; CMPD2; PFHB1; Nav1.5; sodium channel protein type 5 subunit alpha; cardiac tetrodotoxin-insensitive voltage-dependent sodium channel alpha subunit; sodium channel protein cardiac muscle subunit alpha; sodium channel, voltage-gated, type V, alpha subunit; voltage-gated sodium channel subunit alpha Nav1.5

**Gene ID**

[6331](#)

**UniProt ID**

[Q14524](#)