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Product Information

MemDX™ Membrane Protein Human KCND1 (Potassium voltage-gated channel subfamily D member 1) expressed in E.coli for Antibody Discovery

Cat. No.: **MP1372J**
This product is for research use only and is not intended for diagnostic use.

This product is a 29.7 kDa Human KCND1 membrane protein expressed in E.coli. 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
KCND1

Protein Length
Partial (410-647aa)

Protein Class
Ion Channel

Molecular Weight
29.7 kDa

Sequence
NFSRIYHQNQRADKRRAQQKVRLARIRLAKSGTTNAFLQYKQNGGLEDSGSGEEQALCVRNRSAFEQQHHHLLHCLEKTTCHEFT

Product Description

Expression Systems
E.coli

Tag
N-6xHis

Form
Liquid or Lyophilized powder

Reconstitution
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration).

Purity

>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol
Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

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

Target

Target Protein

KCND1

Full Name

Potassium voltage-gated channel subfamily D member 1

Introduction

This gene encodes a multipass membrane protein that comprises the pore subunit of the voltage-gated A-type potassium channel, which functions in the repolarization of membrane action potentials. Activity of voltage-gated potassium channels is important in a number of physiological processes, among them the regulation of neurotransmitter release, heart rate, insulin secretion, and smooth muscle contraction.

Alternative Names

Kcnd1; KCND1_HUMAN; Kv4.1; mShal; OTTHUMP00000025805; OTTHUMP00000025806; Potassium voltage gated channel Shal related subfamily member 1; Potassium voltage gated channel subfamily D member 1; Potassium voltage-gated channel subfamily D member 1; Shal type potassium channel; Voltage gated potassium channel Kv4.1; Voltage gated potassium channel subunit Kv4.1; Voltage-gated potassium channel subunit Kv4.1

Gene ID

3750

UniProt ID

Q9NSA2