

Product Information

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

Cat. No.: **MP1371J**

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

This product is a 27.7 kDa Human KCND1 membrane protein expressed in Yeast. 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

27.7 kDa

Sequence

NFSRIYHQNQRADKRRAQQKVRLARIRLAKSGTTNAFLQYKQNGGLED SGSGEEQALCVRNRS AFEQQHHLLHCLEKTTCHFT

Product Description

Expression Systems

Yeast

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](#)