

Product Information

MemDX™ Membrane Protein Rat Kcna2 (Potassium voltage-gated channel subfamily A member 2)

Cat. No.: **MP0021F**

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

The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Rat

Target Protein

Kcna2

Protein Length

Full Length

Protein Class

Channel

Molecular Weight

57 kDa

TMD

6

Sequence

MTVATGDPVDEAAALPGHPQDTYDPEADHECCERVVINISGLRFETQLKTLAQFPETLLG
DPKKRMRYFDPLRNEYFFDRNRPSFDAILYYYQSGGRLRRPVNVPLDIFSEEIRFYELGE
EAMEMFREDEGYIKEEERPLPENEFQRQVWLLFEYPESSGPARIIAIVSVMVILISIVSF
CLETLPIFRDENEDMHGGGVTFHTYSNSTIGYQQSTSFTDPFFIVETLCIIWFSFEFLVR
FFACPSKAGFFTNIMNIIDIVAIPYFITLGTSLAEKPEDAQGGQQAMSLAILRVIRLVR
VFRIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEADERDSQFPS
IPDAFWWAVVSMTTVGYGDMVPTTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYYFYHRE
TEGEEQAQYLQVTSCPKIPSSPDLKKSRSASTISKSDYMEIQEGVNNSNEDFREENLKTA
NCTLANTNYVNITKMLTDV

Product Description

Activity

To be tested

Application

Screening & display technologies, Structural biology

Expression Systems

Cell-free expression system

Tag

Histidine tag fused to the N-terminal end of the protein

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>60% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

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

Target

Target Protein

Kcna2

Full Name

Potassium voltage-gated channel subfamily A member 2

Introduction

KCNA2 encodes the Kv1.2 potassium channel, a delayed rectifier class of potassium channel that enables neuronal repolarization after an action potential. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume.

Alternative Names

BK2, NGK1, Kv1.2

Gene ID

[25468](#)

UniProt ID

[P63142](#)