

## Product Information

### **MemDX™ Membrane Protein Human KCNN1 (Potassium calcium-activated channel subfamily N member 1) Full Length**

Cat. No.: **MPC1045K**

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

This product is a 59.9 kDa Human KCNN1 membrane protein expressed in HEK293. 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

KCNN1

##### Protein Length

Full length

##### Protein Class

Transporter; Ion channel

##### Molecular Weight

59.9 kDa

##### TMD

6

##### Sequence

MNSHSYNGSVGRPLGSGPGALGRDPPDPEAGHPPQPPHSPGLQVVVAKSE  
PARPSPGSPRGQPQDQDDDEDEEAGRQRASGKPSNVGHRGLGHRRALF  
EKRRKRLSDYALIFGMFGIVVMVTETELSWGVTYKESLYSFALKCLISLST  
AILLGLVVLHAREIQLFMVDNGADDWRIAMTCERVFLISLELAVCAIHP  
VPGHYRFTWTARLAFTYAPSVAEADVLLSIPMFLRLYLLGRVMLLHSHK  
IFTDASSRSIGALNKITFNTFRVMTLMTICPGTVLLVFSISSWIIAAWT  
VRVCERYHDKQEVTSNFLGAMWLISITFLSIGYGDMVPHTYCGKGVCLLT  
GIMGAGCTALVVAVVARKLELTAKAEKHVHNFMMDTQLTKRVKNAAANVLR  
ETWLIYKHTRLVKKPDQARVRKHQRKFLQAIHQAKLRSVKIEQGKLNDQ  
ANTLTDLAKTQTVMYDLVSELHAQHEELEEARLATLESRLDALGASLQALP  
GLIAQAIRPPPPPLPPRPGPGPQDQAARSSPCRWTPVAPSDCG

#### Product Description

##### Expression Systems

HEK293

**Tag**

Based on specific requirements

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

KCNN1

**Full Name**

Potassium calcium-activated channel subfamily N member 1

**Introduction**

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. This gene is a member of the KCNN family of potassium channel genes.

**Alternative Names**

KCNN1; SK1; hSK1; SKCA1; KCa2.1; small conductance calcium-activated potassium channel protein 1; potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 1; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1; small conductance calcium-activated potassium channel 1; SK; Potassium calcium-activated channel subfamily N member 1

**Gene ID**

[3780](#)

**UniProt ID**

[Q92952](#)