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Product Information

MemDX™ Membrane Protein Human KCNMA1 (Potassium calcium-activated channel subfamily M alpha 1) for Antibody Discovery

Cat. No.: **MP1410J**
This product is for research use only and is not intended for diagnostic use.

This product is a 20 kDa Human KCNMA1 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
KCNMA1

Protein Length
Partial (411-560aa)

Protein Class
Ion Channel

Molecular Weight
20 kDa

Sequence
VVCGHITLESVSNFLKDFLHKDRDDVNVEIVFLHNISPNLELEALFKRHFTQVEFYQGSVLNPHDLARVKIESADACLILANKYCADPD

Product Description

Expression Systems
E.coli

Tag
C-6xHis-HPC4

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

>85% 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

KCNMA1

Full Name

Potassium calcium-activated channel subfamily M alpha 1

Introduction

MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit, which is the product of this gene, and the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative Names

subfamily M subunit alpha-1; BK channel; BKCA alpha; BKCA alpha subunit; BKTM; Calcium-activated potassium channel; Calcium-activated potassium channel subunit alpha-1; Drosophila slowpoke like; hSlo; K(VCA)alpha; KCa1.1; KCMA1_HUMAN; KCNMA; KCNMA1; Maxi K channel; Maxi Potassium channel alpha; MaxiK; SAKCA; SLO alpha; SLO; Slo homolog; Slo-alpha; Slo1; Slowpoke homolog

Gene ID

3778

UniProt ID

Q12791