

Product Information

MemDX™ Membrane Protein Human KCNMB4 (Potassium calcium-activated channel subfamily M regulatory beta subunit 4) Full Length

Cat. No.: **MPC0635K**

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

This product is a 23.9 kDa Human KCNMB4 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

KCNMB4

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

23.9 kDa

TMD

2

Sequence

MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQAT
EANCTVLSVQQIGEVFECTFTCGADCRGTSQYPCVQVYVNNSESNSRALL
HSDEHQLLTNPKCSYIPPCCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVVLTICAKSLAVK
AEAMKKRKFS

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

KCNMB4

Full Name

Potassium calcium-activated channel subfamily M regulatory beta subunit 4

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 and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which slows activation kinetics, leads to steeper calcium sensitivity, and shifts the voltage range of current activation to more negative potentials than does the beta 1 subunit.

Alternative Names

Calcium-activated potassium channel subunit beta-4; BK channel beta subunit 4; BK channel subunit beta-4; BKbeta4; MaxiK channel beta-subunit 4; big potassium channel beta subunit 4; calcium-activated potassium channel, subfamily M subunit beta-4; charybdotoxin receptor subunit beta-4; hbeta4; k(VCA)beta-4; large conductance calcium-dependent potassium ion channel beta 4 subunit; maxi K channel subunit beta-4; potassium channel subfamily M regulatory beta subunit 4; potassium large conductance calcium-activated channel, subfamily M, beta member 4; slo-beta-4; KCNMB4; Potassium calcium-activated channel subfamily M regulatory beta subunit 4

Gene ID

[27345](#)

UniProt ID

[Q86W47](#)