

Product Information

MemDX™ Recombinant Human K2P4.1 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-026**

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

This product is recombinant Human K2P4.1 in VLPs form. This product is produced from mammalian cells by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

Product Specifications

Host Species

Human

Target Protein

K2P4.1

Protein Length

Full length

Protein Class

Ion channel

TMD

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Product Description

Application

ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

Expression Systems

HEK293 expression system

Protein Format

Membrane Protein-Virus Like Particles (MP-VLPs)

Form

Liquid

Storage

The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

Target

Target Protein

K2P4.1

Full Name

Potassium two pore domain channel subfamily K member 4

Introduction

This gene encodes a member of the TWIK-related arachidonic acid-stimulated two pore potassium channel subfamily. The encoded protein homodimerizes and functions as an outwardly rectifying channel. This channel is regulated by polyunsaturated fatty acids, temperature and mechanical deformation of the lipid membrane. This protein is expressed primarily in neural tissues and may be involved in regulating the noxious input threshold in dorsal root ganglia neurons. Alternate splicing results in multiple transcript variants. Naturally occurring read-through transcripts also exist between this gene and the downstream testis expressed 40 (TEX40) gene, as represented in GeneID: 106780802.

Alternative Names

FHEIG; TRAAK; K2p4.1; TRAAK1; KCNK4; potassium channel subfamily K member 4; K2P4.1 potassium channel; TWIK-related arachidonic acid-stimulated potassium channel protein; potassium channel, subfamily K, member 4; potassium channel, two pore domain subfamily K, member 4; two pore K(+) channel KT4.1; two pore K⁺ channel KT4.1; two pore potassium channel KT4.1

Gene ID

[50801](#)

UniProt ID

[Q9NYG8](#)