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Product Information

MemDX™ Recombinant Human HV1 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-022**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human HV1 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
HV1

Protein Length
Full length

Protein Class
Ion channel

TMD
4

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

HV1

Full Name

Hydrogen voltage gated channel 1

Introduction

This gene encodes a voltage-gated protein channel protein expressed more highly in certain cells of the immune system. Phagocytic cells produce superoxide anions which require this channel protein, and in B cells this same process facilitates antibody production. This same channel protein, however, can also regulate functions in other cells including spermatozoa. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

HV1; VSOP; HVCN1; voltage-gated hydrogen channel 1; voltage sensor domain-only protein

Gene ID

84329

UniProt ID

Q96D96

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