

Product Information

MemDX™ Recombinant Mouse CXCR4 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-015**

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

This product is recombinant Mouse CXCR4 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

Mouse

Target Protein

CXCR4

Protein Length

Full length

Protein Class

GPCR

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

CXCR4

Full Name

Chemokine (C-X-C motif) receptor 4

Introduction

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Alternative Names

fu; Sdf; Cmka; PB-C; CD184; LESTR; Sdf1r; CXC-R4; CXCR-4; Cmkar4; PB-CKR; b2b220C; b2b220Clo; PBSF/SDF-1; C-X-C chemokine receptor type 4; SDF-1 receptor; chemokine (C-X-C) receptor 4; chemokine receptor 4; fusin; leukocyte-derived seven transmembrane domain receptor; leukocyte-expressed seven-transmembrane-domain; pre-B-cell-derived chemokine receptor; stromal cell-derived factor 1 receptor

Gene ID

[12767](#)

UniProt ID

[P70658](#)