

Product Information

MemDX™ Recombinant Human CCR1 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-005**

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

This product is recombinant Human CCR1 in VLPs form. This product is produced from mammalian cells by co-expressing the retroviral structural core polypeptide (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

CCR1

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

CCR1

Full Name

C-C motif chemokine receptor 1

Introduction

This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. The ligands of this receptor include macrophage inflammatory protein 1 alpha (MIP-1 alpha), regulated on activation normal T expressed and secreted protein (RANTES), monocyte chemoattractant protein 3 (MCP-3), and myeloid progenitor inhibitory factor-1 (MPIF-1). Chemokines and their receptors mediated signal transduction are critical for the recruitment of effector immune cells to the site of inflammation. Knockout studies of the mouse homolog suggested the roles of this gene in host protection from inflammatory response, and susceptibility to virus and parasite. This gene and other chemokine receptor genes, including CCR2, CCRL2, CCR3, CCR5 and CXCR1, are found to form a gene cluster on chromosome 3p.

Alternative Names

CKR1; CD191; CKR-1; HM145; CMKBR1; MIP1aR; SCYAR1; C-C chemokine receptor type 1; C-C CKR-1; CC-CKR-1; CCR-1; LD78 receptor; MIP-1alpha-R; RANTES receptor; RANTES-R; chemokine (C-C motif) receptor 1; macrophage inflammatory protein 1-alpha receptor

Gene ID

[1230](#)

UniProt ID

[P32246](#)