

Product Information

MemDX™ Membrane Protein Human CCR5 (C-C motif chemokine receptor 5) without tag for Antibody Discovery

Cat. No.: **MP0170X**

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

This product is a 40.5 kDa Human CCR5 membrane protein expressed in *in vitro* wheat germ expression system. 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

CCR5

Protein Length

Full-length

Molecular Weight

40.5 kDa

TMD

7

Sequence

MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFFLLTVPFWAHYAAA

Product Description

Application

Antibody Production

Expression Systems

in vitro wheat germ expression system

Tag

NO

Protein Format

Liposome

Form

Liquid

Purification

None

Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

CCR5

Full Name

C-C motif chemokine receptor 5

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. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the functional allele. Two transcript variants encoding the same protein have been found for this gene

Alternative Names

CC-CKR-5; CCCKR5; CD195; CKR-5; CKR5; CMKBR5; IDDM22; C-C chemokine receptor 5; C-C chemokine receptor type 5; CCR5 chemokine receptor; chemokine (C-C) receptor 5; chemokine receptor CCR5; chemr13

Gene ID

[1234](#)

UniProt ID

[P51681](#)