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# Product Information

## MemDX™ Membrane Protein Human CCR5 (C-C motif chemokine receptor 5) with GST-tag for Antibody Discovery

Cat. No.: **MP0171X**
This product is for research use only and is not intended for diagnostic use.

This product is a 66.9 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**
66.9 kDa

**TMD**
7

**Sequence**
MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFFLLTVPFWAHYAAA

## Product Description

**Application**
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

**Expression Systems**
*in vitro* wheat germ expression system

**Tag**
GST-tag at N-terminal

**Form**
Liquid

**Purification**

Glutathione Sepharose 4 Fast Flow

**Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

**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

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