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Product Information

MemDX™ Membrane Protein Human CCR5 (C-C motif chemokine receptor 5) Expressed in HEK293 for Antibody Discovery, Partial (2-223 aa & 227-319 aa, C58Y, G163N, A233D, K303E)

Cat. No.: **MPX0559K**
This product is for research use only and is not intended for diagnostic use.

This product is a 46.0 kDa Human CCR5 membrane protein expressed in HEK293. 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
Partial (2-223 aa & 227-319 aa, C58Y, G163N, A233D, K303E)

Protein Class
GPCR

Molecular Weight
46.0 kDa

TMD
7

Sequence
DYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNML
VILILINYKRLKSMTDIYLLNLAISDLFFLLTVPFWAHYAAAQWDFGNTM
CQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSV
ITWVVAVFASLPNIIFTRSQKEGLHYTCSSHFPYSQYQFWKNFQTLKIVI
LGLVLPLLVMVICYSGILKTLLREKKRHRDVRLIFTIMIVYFLFWAP
YNIVLLLNTFQEFFGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFV
GEEFRNYLLVFFQKHIAKR

Product Description

Activity
Yes

Expression Systems

HEK293

Tag

Flag tag at the N-terminus and His tag at the C-terminus

Protein Format

Detergent

Form

Liquid

Endotoxin

<1.0 EU per 1 μg of the protein by the LAL method.

Purity

>85% as determined by SDS-PAGE.

Buffer

Delivered as bulk protein in a 0.2 μm filtered solution of 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

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

CCR5; CKR5; CCR-5; CD195; CKR-5; CCCKR5; CMKBR5; IDDM22; CC-CKR-5; C-C motif chemokine receptor 5 A159A; HIV-1 fusion coreceptor; chemokine (C-C motif) receptor 5; chemokine receptor CCR5; chemokine recptor CCR5 Delta32; chemr13; C-C motif chemokine receptor 5

Gene ID

1234

UniProt ID

P51681