

## Product Information

### **MemDX™ Membrane Protein Human CCR9 (C-C motif chemokine receptor 9) expressed in E.coli for Antibody Discovery**

Cat. No.: **MP1338J**

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

This product is a 42 kDa Human CCR9 membrane protein expressed in E.coli. 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

CCR9

##### Protein Length

Full-length

##### Protein Class

GPCR

##### Molecular Weight

42 kDa

##### TMD

7

##### Sequence

MTPTDFTSPIPNMADDYGSESTSSMEDYVNFNFTDFYCEKNNVRQFASHFLPPLYWLVFI  
VGALGNSLVILVYWYCTRVKTMTDMFLLNLAIDLLFLVTLPFWAIAAADQWKQTFMCK  
VVNSMYKMNFYSCVLLIMCISVDRIYIAIAQAMRAHTWREKRLLYSKMVCFTIWVLAALC  
IPEILYSQIKEESGIAICTMVYPSESTKLKSAVLTCLKVILGFFLPFVVMACCYTIIHT  
LIQAKKSSKHKALKVTITVLTVFVLSQFPYNCILLVQTIDAYAMFISNCAVSTNIDICFQ  
VTQTIAFFHSCLNPVLYFVGERFRDLVKTLKNLGCISQAQWVSFTRREGSLKLSSMLL ETTSGALS

#### Product Description

##### Expression Systems

E.coli

##### Tag

N-His or Tag-Free

**Form**

Lyophilized powder

**Reconstitution**

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

**Purity**

>85% as determined by SDS-PAGE

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

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

**Target****Target Protein**

CCR9

**Full Name**

C-C motif chemokine receptor 9

**Introduction**

The protein encoded by this gene is a G protein-coupled receptor with seven transmembrane domains that belongs to the beta chemokine receptor family. Chemokines and their receptors are key regulators of thymocyte migration and maturation in normal and inflammation conditions. This gene is differentially expressed in T lymphocytes of the small intestine and colon, and its interaction with chemokine 25 contributes to intestinal intra-epithelial lymphocyte homing to the small intestine. This suggests a role for this gene in directing immune responses to different segments of the gastrointestinal tract. This gene and its exclusive ligand, chemokine 25, are overexpressed in a variety of malignant tumors and are closely associated with tumor proliferation, apoptosis, invasion, migration and drug resistance. This gene maps to the chemokine receptor gene cluster. Multiple transcript variants encoding different isoforms have been found for this gene.

**Alternative Names**

CCR9; GPR28; C-C chemokine receptor type 9; C-C CKR-9; CC-CKR-9; CCR-9; G-protein coupled receptor 28; GPR-9-6; CD antigen CDw199

**Gene ID**

[10803](#)

**UniProt ID**

[P51686](#)