

Product Information

MemDX™ Human FLAG tagged CCR8 HEK293T Gαqi5 Cell Line, Calcium flux assay

Cat. No.: **S01YF-1022-KX257**

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

Product Information

Target Protein

CCR8

Target Protein Species

Human

Accession Number

NM_005201.2

Protein Tag

FLAG-tag at N-terminus

Host Cell Type

HEK293T Gαqi5

Target Classification

GPCR

Target Family

Chemokine

Target Research Area

Cancer Research; Infectious Research; Inflammation Research

Related Diseases

Molluscum Contagiosum; Kaposi Sarcoma

Product Properties

Assay Types

Calcium flux assay

Resistance

Hygromycin + puromycin

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

2x10⁶ cells

Form

Frozen cells

Culture Medium

DMEM, 10% FBS, 250 µg/mL hygromycin, 1µg/mL puromycin

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.

Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.

Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO₂

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO₂ to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

C-C motif chemokine receptor 8

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. Chemokines and their receptors are important for the migration of various cell types into the inflammatory sites. This receptor protein preferentially expresses in the thymus. I-309, thymus activation-regulated cytokine (TARC) and macrophage inflammatory protein-1 beta (MIP-1 beta) have been identified as ligands of this receptor. Studies of this receptor and its ligands suggested its role in regulation of monocyte chemotaxis and thymic cell apoptosis. More specifically, this receptor may contribute to the proper positioning of activated T cells

within the antigenic challenge sites and specialized areas of lymphoid tissues. This gene is located at the chemokine receptor gene cluster region.

GPCR Signaling Pathway

The endogenous ligand is CC chemokines. Targeted protein activation can cause binding of Gi to Go protein which, in turn, cause an inhibition of adenylate cyclase and then decrease of cAMP concentration.

G coupling

Gi & Go

Endogenous Ligand

CC chemokines

Alternative Names

CY6; TER1; CCR-8; CKRL1; CDw198; CMKBR8; GPRCY6; CMKBRL2; CC-CKR-8; C-C chemokine receptor type 8; CC chemokine receptor 8; CC chemokine receptor CHEMR1; CC-chemokine receptor chemr1; chemokine (C-C motif) receptor 8; chemokine (C-C) receptor 8; chemokine (C-C) receptor-like 2; chemokine receptor-like 1; C-C CKR-8; CKR-L1; CCR8

Gene ID

[1237](#)

UniProt ID

[P51685](#)