

Alternate Names	CC-CKR-4, cluster of differentiation 194, CD194, CKR4, CMKBR4, ChemR13, HGCN:14099, K5-5, C-C motif chemokine receptor 4
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human C-C chemokine receptor type 4 (CCR4) is a 7-transmembrane G protein-coupled receptor (GPCR). CCR4 is a Class A GPCR. CCR4 is highly expressed in the thymus and to a lesser extent the spleen. Being expressed on the surfaces of specific white blood cell subsets - particularly T helper type 2 (Th2) cells, regulatory T (Treg) cells, and Th17 cells, CCR4 functions as a critical homing mechanism. CCR4 is heavily and uniformly overexpressed on malignant T-cells in several blood cancers, most notably Adult T-cell Leukemia/Lymphoma (ATLL) and aggressive Cutaneous T-cell Lymphomas (CTCLs). It also guides leukocyte trafficking, dictates immune response polarization, and mediates immunosuppression within the tumor microenvironment. CCR4 has become an important therapeutic target for cancer therapy. Human CCR4 protein has >85% sequence homology with mouse CCR4.

Product Details

Specificity	Human
Antibody Type	Mouse monoclonal
Host Species	Mouse
Immunogen	CCR4 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P51679
Formulation / Storage buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as protectant



Anti-Human CCR4 Monoclonal Antibody

Product Code: CABh-25382

Clone: 1H11-A5

For Research Use Only (RUO)

Reconstitution

For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 µg/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing.

For 25µg product size:

Reconstitute with 50 µL sterile deionized water.

For 100µg product size:

Reconstitute with 200 µL sterile deionized water.

Shipping

Frozen Ice Packs

Purification

Affinity Enrichment

Stability & Storage

-20°C

Verified Application

ELISA

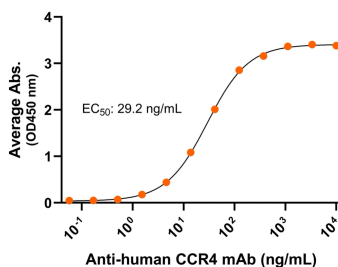
Recommended Usage

ELISA: starting concentration 1 µg/mL

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human CCR4 Monoclonal Antibody, ELISA
 0.2 µg of CCR4 protein per well



Immobilized human CCR4 fragment at 2 µg/mL (100 µL/well) can bind Mouse Anti-Human CCR4 Monoclonal Antibody (Cat. No. CABh-25382) with half maximal effective concentration (EC₅₀) range of 14.6-58.4 ng/mL (QC tested).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Activates a phosphatidylinositol-calcium second messenger system upon ligand binding
Ligand / Receptor	CCL2, CCL4, CCL5, CCL17, and CCL22
Cell Type	CD4+ T cell subsets (Th2, Th17, Treg cells), basophil, and peripheral blood leukocytes
Molecular Family	G protein-coupled receptor
Gene ID	P51679