www.innocyto.com

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618
Email: info@innocyto.com
Phone: 1-949-418-7543

Anti-human CD194 (CCR4) Antibody

Catalog Number:	114601, 114602
Size:	25 μg, 100 μg
Target Name:	CD194, CCR4, CKR4, ChemR13, K5-5, CMKBR4, ChemR13, CC-CKR-4
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	194AM1
Application:	Flow Cytometry
Reactivity:	Human
Format:	Purified
Isotype:	Mouse IgG1
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration:	0.5 mg/mL
Storage & Handling:	The antibody solution should be stored between 2°C and 8°C
Recommended Usage:	For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application
Isotype Control:	301401
GeneID:	1233
RRID:	AB_3759061

BACKGROUND INFORMATION

Human CCR4 (C-C chemokine receptor 4) is a G protein–coupled receptor primarily expressed on subsets of T lymphocytes, including Th2 cells and regulatory T cells (Tregs). It plays a key role in directing immune cell trafficking to sites of inflammation, particularly in skin and mucosal tissues. CCR4 contributes to immune surveillance and regulation by guiding lymphocyte migration in response to chemokine gradients.

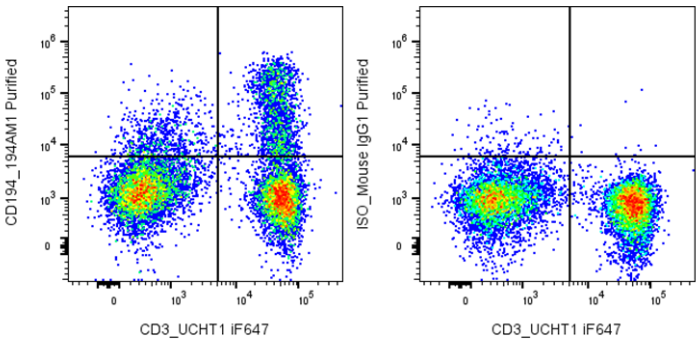
Structurally, CCR4 is a seven-transmembrane domain receptor typical of the GPCR family, with an extracellular N-terminus involved in ligand binding and an intracellular C-terminus that mediates signal transduction through G proteins. Upon ligand binding, CCR4 activates downstream signaling pathways that regulate cytoskeletal rearrangement, cell migration, and survival.

The principal ligands for CCR4 are the chemokines CCL17 (TARC) and CCL22 (MDC), which are produced by dendritic cells, macrophages, and epithelial cells. These interactions promote recruitment of CCR4-expressing T cells to inflamed tissues.

In disease, CCR4 is implicated in allergic conditions, autoimmune disorders, and cancer. It is highly expressed in certain T-cell

malignancies, such as adult T-cell leukemia/lymphoma (ATLL) and cutaneous T-cell lymphoma (CTCL), where it supports tumor cell migration and immune evasion. Therapeutically, CCR4 is a validated target, with monoclonal antibodies like mogamulizumab used to deplete CCR4-positive malignant and regulatory T cells, enhancing anti-tumor immunity.

PRODUCT DATA



Human peripheral blood lymphocytes were stained with iF647 anti-Human CD3 clone UCHT1 and Purified anti-Human CD194 clone 194AM1 (left) or an isotype control (right) , followed by PE anti-Mouse IgG.

This product is supplied subject to the terms and conditions at www.innocyto.com/web/terms.php and may only be used as provided in the stated terms. Products are for Research Use Only.