

PE/Cy7 anti-human CD194 (CCR4)

Catalog # / Size: 335405 / 25 µg

Clone: TG6/CCR4

Isotype: Mouse IgG2b, κ

Immunogen: Human CCR4 transfectants

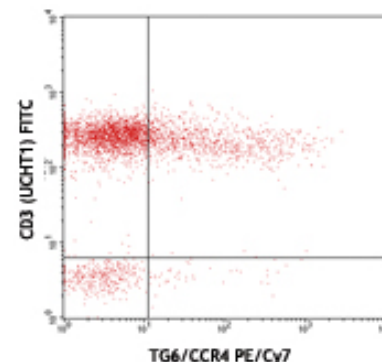
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with CD3 (UCHT1) FITC and TG6/CCR4 PE/Cy7

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References: 1. Toldi, G., *et al.* 2011. *Am. J. Reprod. Immunol.* doi:10.1111/j.1600-0897. (FC) PubMed

Description: CCR4 is a CC chemokine receptor, and it was clone from a human basophilic cell line KU-812 in 1995. (1). CCR4 binds CCL17 and CCL22 and is expressed on stimulated and unstimulated T, and B cells, basophils, monocytes, and NK cells. Human Th2 cells are characterized by the expression of CCR4 and CCR8 (2), and these receptors are regulated differently during Th2 development (3). Human peripheral blood Tregs can be divided into two distinct populations based on the expression of CCR4. Freshly isolated Tregs express CCR4 and presumably represent memory-type Tregs, and CCR4(-) Tregs require anti-CD3 Ab-mediated activation to acquire a regulatory activity. Depletion of CCR4(+) T cells leads to Th1-type polarization of CD4(+) T cells and augmentation of CD8(+) T cell responses to tumor Ags (4). CCR4 and its ligands are important for the recruitment of memory T cells into the skin in various cutaneous immune diseases (5).

Antigen References: 1) Power *et al.* 1995 *J. Biol. Chem.*, 270:19495.
 2) Katschke KJ, *et al.* 2001, *Arthritis Rheum*, 44:1022.
 3) Colantonio L, *et al.* 2002, *Eur. J. Immunol.*, 32:1264.
 4) Jakubzick, C. *et al.* 2004 *Am J Pathol* 165:1211
 5) Morimoto Y, *et al.* 2005, *J Leukoc Bio*, 78:753
 6) Baatar J, *et al.* 2007, *J. Immunol.*, 178(8):4891.
 7) Kusumoto M, *et al.* 2007 *J Interf Cytok Res* 27:901.

Related Products:

Product
 PE/Cy7 Mouse IgG2b, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MPC-11

Application
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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