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Product Data Sheet

PE/Cy7 anti-mouse CD194 (CCR4)

Catalog # / Size: 131213 / 25 µg
131214 / 100 µg

Clone: 2G12

Isotype: Armenian Hamster IgG

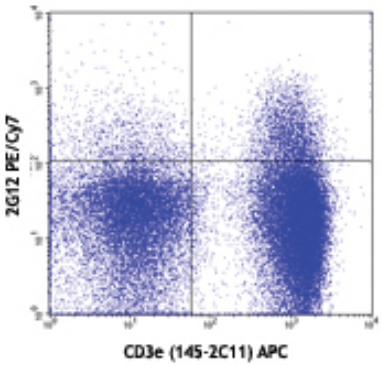
Reactivity: Mouse

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.**



Multiple-immunized Balb/c lymph node cells stained with 2G12 PE/Cy7 and CD3e (145-2C11) APC

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 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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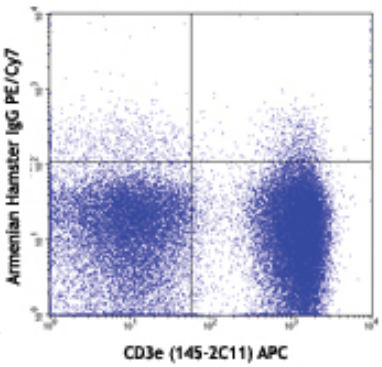

Multiple-immunized Balb/c lymph node cells stained with Armenian Hamster IgG PE/Cy7 isotype control and CD3e (145-2C11) APC

Application References:
1. Saito K, *et al.* 2008. *J. Immunol.* 181:6889. PubMed
2. Ueha S, *et al.* 2007. *J. Leukoc. Biol.* 82:1230. PubMed
3. Sharma R, *et al.* 2009 *J. Immunol*. 183:1065 (FC) PubMed
4. Dogan R, *et al.* 2011. *J. Leukoc. Biol.* 89:93. PubMed

Description: Mouse CCR4 cDNA contains 1531 bp, and encodes a protein of 360 amino acids that is 85% identical to human CCR4. CCR4 binds CCL17 (TARG) and CCL22 (MDC). Naïve T cells, bearing receptors for cutaneous antigens, become activated in skin-draining lymph nodes and express cutaneous lymphocyte antigen (CLA), which confers to these cells the capacity to migrate into the skin to exert their normal effector functions (1). CCR4 and CCR10 play an important role in the ligand-mediated recruitment of T cells into the skin in mice and humans, specifically with regards to tethering, firm adhesion, and subsequent extravasation to the site of injury (2,3). CCR4 is expressed in cutaneous regulatory T cells (Tregs). These cells are crucial for the induction and maintenance of self-tolerance and are present in peripheral tissues such as skin and gut under normal, noninflamed conditions (4).In addition, recruitment of Foxp3+ T regulatory cells mediating allograft tolerance depends on the CCR4 chemokine receptor and its ligand CCL22 (5).

Antigen References:
1. Biederman T, *et al.* 2002. *Eur. J. Immun*. 32:3171.
2. Mirshahpanah P, *et al.* 2008. *Exp. Dermatol.* 17:30.
3. Kusumoto M, *et al.* 2007. *J. Interferon Cytokine Res* 27:901.
4. Clark RA and Kupper TS. 2006. Blood 109:194.
5. Lee I, *et al.* 2005. *J. Exp. Med*. 201:1037.

Related Products:

Product	Clone	Application
PE/Cy7 Armenian Hamster IgG Isotype Ctrl	HTK888	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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