

CD194 (CCR4) Monoclonal Antibody (D8SEE), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	D8SEE
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573725

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication

Product Specific Information

Description: This D8SEE monoclonal antibody reacts with human CD194 (CCR4). CD194, also known as C-C Chemokine Receptor 4 (CCR4) is a member of the G protein-coupled receptor family, a large family characterized by seven transmembrane alpha helical domains. The ligands for CCR4 are CCL17 (TARC) and CCL22 (MDC), which direct the migration of target cells. CCR4 and its ligands, along with the other receptors CCR10 and CLA, are particularly important for the recruitment of T cells into the skin, where they may also play a role in adhesion and extravasation. Although CCR4 expression was originally believed to be restricted to Th2 cells, it has since been observed in some subsets of Th17, Treg, and Th1 cells. It is not expressed by naive T cells, indicating a role in memory or effector function. Other cells that express CCR4 are activated NK cells, platelets, monocytes, and basophils.

Applications Reported: This D8SEE antibody has been reported for use in flow cytometric analysis.

Applications Tested: This D8SEE antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

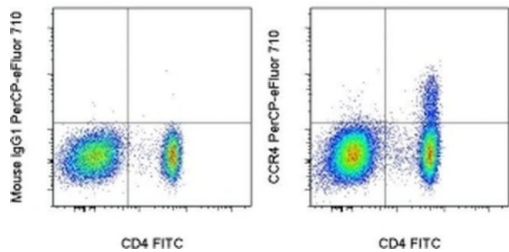
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-

step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD194 (CCR4) Monoclonal Antibody (D8SEE), PerCP-eFluor™ 710, eBioscience™



CD194 (CCR4) Antibody (46-1949-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD4 FITC (Product # 11-0049-42) and Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (left) or Anti-Human CD194 (CCR4) PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Oncology letters	Year 2020
Application of the chemokine-chemokine receptor axis increases the tumor-targeted migration ability of cytokine-induced killer cells in patients with colorectal cancer.	
"Published figure using CD194 (CCR4) monoclonal antibody (Product # 46-1949-42) in Flow Cytometry"	
Authors: Zou Y,Liang J,Li D,Fang J,Wang L,Wang J,Zhang J,Guo Q,Yan X,Tang H	

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