

CD197 (CCR7) Monoclonal Antibody (3D12), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	3D12
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853814

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	3 Publications

Product Specific Information

Description: The 3D12 monoclonal antibody reacts with human CCR7, also known as EBI-1 and CD197. CCR7 is a member of the G-protein-coupled chemokine receptor family with seven membrane-spanning domains and functions as a receptor for 6Ckine /SLC (secondary lymphoid-tissue chemokine), CCL19 and CCL21. CCR7 has been shown to be internalized via clathrin-coated pits and the majority recycled back to the plasma membrane. CCR7 is expressed on T cells and can be used to distinguish populations of naive from central and effector memory T cells. CCR7 has been shown to play a role in migration of memory T cells to inflamed tissue. Expression of CCR7 is also found on DC's. During DC maturation CCR7 expression increases and is thought to be involved in a variety of functions: chemotaxis to the lymph node, cellular architecture, rate of endocytosis, survival and maturation. Expression of CCR7 on the cell surface can be down regulated upon ligand binding.

Applications Reported: This 3D12 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 3D12 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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.

It is recommended that the staining incubation time be increased to at least 45 minutes at 2-8°C for optimal staining.

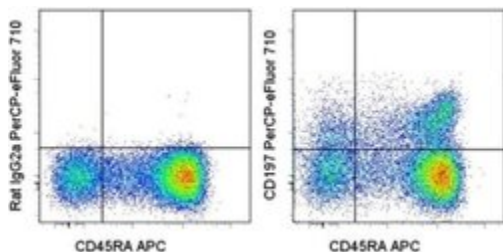
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

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

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD197 (CCR7) Monoclonal Antibody (3D12), PerCP-eFluor 710, eBioscience™



CD197 (CCR7) Antibody (46-1979-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD45RA APC (Product # 17-0458-42) and Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or Anti-Human CD197 (CCR7) PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

3 References

Flow Cytometry (3)

Immunology

Phenotypic characterization of regulatory T cells from antiretroviral-naive HIV-1-infected people.

"46-1979 was used in Flow cytometry/Cell sorting to determine how antiretroviral therapy-naive HIV-1 infection affects the phenotypic properties of Treg cells."

Authors: Ambada GN, Ntsama CE, Nji NN, Ngu LN, Sake CN, Lissom A, Tchouangeu FT, Tchadji J, Sosso M, Etoa FX, Nchinda GW

Species
Human

Dilution
Not Cited

Year
2017

PLoS pathogens

Memory T cells in latent Mycobacterium tuberculosis infection are directed against three antigenic islands and largely contained in a CXCR3+CCR6+ Th1 subset.

"46-1979 was used in Flow cytometry/Cell sorting to further define the immunological footprint of Mycobacterium tuberculosis CD4 T cell recognition."

Authors: Lindestam Arlehamn CS, Gerasimova A, Mele F, Henderson R, Swann J, Greenbaum JA, Kim Y, Sidney J, James EA, Taplitz R, McKinney DM, Kwok WW, Grey H, Sallusto F, Peters B, Sette A

Species
Human

Dilution
Not Cited

Year
2013

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