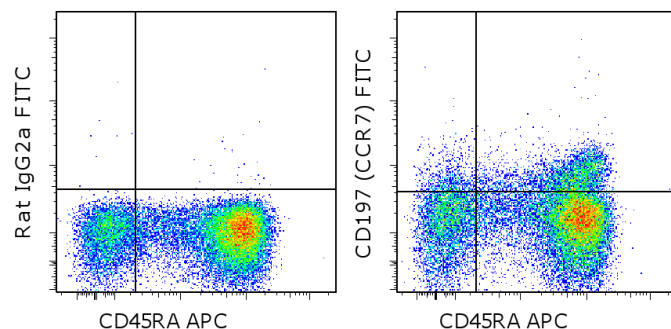


## Anti-Human CD197 (CCR7) FITC

**Catalog Number:** 11-1979

**Also known as:** EBI-1, MIP-3 beta Receptor

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD45RA APC (cat. 17-0458) and Rat IgG2a K Isotype Control FITC (cat. 11-4321) (left) or Anti-Human CD197 (CCR7) FITC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human CD197 (CCR7) FITC

**Catalog Number:** 11-1979

**Clone:** 3D12

**Concentration:** 5 µL (0.5 µg)/test

**Host/Isotype:** Rat IgG2a, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Caution, contains Azide**

### 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 naïve 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 (0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

It is recommended that the staining incubation time be increased to at least 45 minutes at 4°C for optimal staining.

### References

Geginat J, Lanzavecchia A, Sallusto F. Proliferation and differentiation potential of human CD8+ memory T-cell subsets in response to antigen or homeostatic cytokines. *Blood*. 2003 Jun 1;101(11):4260-6. (3D12, FC, PubMed)

Sallusto F, Lenig D, Forster R, Lipp M, Lanzavecchia A. Two subsets of memory T lymphocytes with distinct homing potentials and effector functions. *Nature*. 1999 Oct 14;401(6754):708-12. (3D12, FC, PubMed)

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### Related Products

11-4321 Rat IgG2a K Isotype Control FITC (eBR2a)

17-0458 Anti-Human CD45RA APC (HI100)