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Anti-Human CD197 (CCR7) Purified

Catalog Number: 14-1979
Also Known As:EBI-1, MIP-3 beta Receptor
RUO: For Research Use Only

Product Information

Contents: Anti-Human CD197 (CCR7) Purified
REF **Catalog Number:** 14-1979
Clone: 3D12
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **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 and immunohistology staining of paraffin embedded tissue sections.

Applications Tested

This 3D12 antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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)

Related Products

14-4321 Rat IgG2a K Isotype Control Purified
14-9977 Anti-Human CD197 (CCR7) Purified (CCR7.6B3)

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