

CD197 (CCR7) Rat Anti-Mouse mAb (clone 4B12), APC Conjugate

Store at 2°C to 8°C

Pub. No. MAN0009499 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A18389	APC	50 µg (0.2 mg/mL)	650 nm	660 nm

Clone	4B12
Host/Class	Rat IgG2aκ
Description	The CD197 (CCR7) Rat Anti-Mouse Monoclonal Antibody (mAb) reacts with mouse CD197, a chemokine receptor for CCL19 (CK811, ELC, MIP3β, Scya19, Exodus-3), and CCL21 (CK89, SLC, MIP2β, Scya21, Exodus-2). It is involved in homeostatic trafficking of naïve T cells to secondary lymphoid organs (SLO), and localization of dendritic cells and B cells during an immune response. CD197 also plays a role in various aspects of thymocyte development.
Alternate Names	EBI-1, CCR-7, MIP-3 beta receptor
Applications*	FC (C57BL/6, Balb/C and SJL/J splenocytes and thymocytes) ^{1, 3-4}
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> Ritter, U, Wiede, F, Mielenz, D, Kiafard, Z, Zwirner, J, and Korner H. 2004. Analysis of the CCR7 expression on murine bone marrow-derived and spleen dendritic cells. <i>Journal of Leukocyte Biology</i>. 76: 472-476. Bjorkdahl O, Barber KA, Brett SJ, Daly MG, Plumpton C, Elshourbagy NA, Tite JP, Thomsen LL. 2003. Characterization of CC-chemokine receptor 7 expression on murine T cells in lymphoid tissues. <i>Immunology</i>. 110(2):170-9. Waldner H, Sobel RA, et al. 2006. The autoimmune diabetes locus Idd9 regulates development of type 1 diabetes by affecting the homing of islet-specific T cells. <i>J Immunol</i>. 176(9):5455-62. Ohl L, Mohaupt M, Czeloth N, Hintzen G, Kiafard Z, Zwirner J, Blankenstein T, Henning G, Forster R. 2004. CCR7 governs skin dendritic cell migration under inflammatory and steady-state conditions. <i>Immunity</i>. 21(2):279-88.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

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Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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