



1P-735-C100

Monoclonal Antibody to CD197 / CCR7 (mouse) Phycoerythrin (PE) conjugated (0.1 mg)

Clone:	4B12
Isotype:	Rat IgG2a
Specificity:	The rat monoclonal antibody 4B12 recognizes murine CD197 / CCR7 (chemokine receptor 7), a 43 kDa G-protein-coupled receptor for chemokines CCL19 and CCL21.
Regulatory Status:	RUO
Immunogen:	Murine CD197-transfected RBL-2H3 cells
Species Reactivity:	Mouse
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD197 / CCR7 (chemokine receptor 7) is a seven membrane-spanning protein serving as a receptor for chemokines CCL19 and CCL21. It is expressed on most naive T cells, some hematopoietic stem cells, mature dendritic cells, NK cells and some memory T cells and B cells subsets. CD197 plays important roles in development of thymocytes, and regulating the recirculation and homing of lymphocytes and dendritic cells to secondary lymphoid organs.
References:	*Singh V, Gowthaman U, Jain S, Parihar P, Banskar S, Gupta P, Gupta UD, Agrewala JN: Coadministration of interleukins 7 and 15 with bacille Calmette-Guérin mounts enduring T cell memory response against Mycobacterium tuberculosis. <i>J Infect Dis.</i> 2010 Aug 15;202(3):480-9 *Adachi K, Osada Y, Nakamura R, Tamada K, Hamano S: Unique T Cells with Unconventional Cytokine Profiles Induced in the Livers of Mice during Schistosoma mansoni Infection. <i>PLoS One.</i> 2013 Dec 16;8(12):e82698. *Huggins A, Paschalidis N, Flower RJ, Perretti M, D'Acquisto F: Annexin-1-deficient dendritic cells acquire a mature phenotype during differentiation. <i>FASEB J.</i> 2009 Apr;23(4):985-96 *Eisenbarth SC, Williams A, Colegio OR, Meng H, Strowig T, Rongvaux A, Henao-Mejia J, Thaiss CA, Joly S, Gonzalez DG, Xu L, Zenewicz LA, Haberman AM, Elinav E, Kleinstein SH, Sutterwala FS, Flavell RA: NLRP10 is a NOD-like receptor essential to initiate adaptive immunity by dendritic cells. <i>Nature.</i> 2012 Apr 25;484(7395):510-3

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