

TECHNICAL DATA SHEET

CyFlow™ CD197 Purified Anti-Ms; Clone 4B12

REF CL718383

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD197
Alternative Names	CCR7, EB11, BLR2, CMKBR7
Clone	4B12
Clonality	monoclonal
Format	Purified
Host / Isotype	Rat / IgG2a
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Murine CD197-transfected RBL-2H3 cells

Specificity

The rat monoclonal antibody 4B12 recognizes mouse CD197 receptor, a 43 kDa G-protein-coupled receptor for chemokines CCL19 and CCL21.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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

- Huggins A, Paschalidis N, Flower RJ, Perretti M, D'Acquisto F: Annexin-1-deficient dendritic cells acquire a mature phenotype during differentiation. FASEB J. 2009 Apr; 23(4):985-96. < PMID: 19029200 >
- 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. J Infect Dis. 2010 Aug 15; 202(3):480-9. < PMID: 20569158 >
- Eisenbarth SC, Williams A, Colegio OR, Meng H, Strowig T, Rongvaux A, Henao-Mejia J, Thaïss 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. Nature. 2012 Apr 25; 484(7395):510-3. < PMID: 22538615 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- 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. PLoS One. 2013 Dec 16; 8(12):e82698. < PMID: 24358216 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com