



CELL LAB Rat Anti-Mouse CD45RC

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732317	Purified (UNLB) Antibody	0.5 mg
732318	Fluorescein (FITC) Conjugate	0.5 mg
732319	Fluorescein (FITC) Conjugate	0.1 mg
732320	Biotin (BIOT) Conjugate	0.5 mg
732321	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: C455.1F
Isotype: Rat IgG2a κ
Specificity: An exon C-dependent epitope of CD45 glycoprotein

The CD45 family of cell-surface glycoprotein antigens exist as a set of isoforms.¹⁻⁴ The patterns of monoclonal antibody recognition of the CD45 phenotypes can be restricted (CD45RA, RB and RC),^{1,2} or broader, such as the CD45 T-200 species.^{3,4} The “restricted” subsets of this group arise as a result of translation of alternatively spliced mRNAs from exons A, B and C (exons 4, 5 and 6), where exons 3-15 encode the extracellular domain of the CD45 molecule. The restricted epitopes are differentially expressed on T and B lymphocytes, including functionally distinct T cells.¹

APPLICATIONS

- Identification and enumeration of CD45RC⁺ cells by flow cytometry
- Immunoprecipitation

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using immunofluorescence staining and flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

FITC conjugate	≤1 μg/10 ⁶ cells
BIOT conjugate	≤1 μg/10 ⁶ cells
PE conjugate	≤0.2 μg/10 ⁶ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugates are supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.

- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

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For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Hathcock KS, Laszlo G, Dickler HB, Sharrow SO, Johnson P, Trowbridge IS and Hodes RJ. 1992. Expression of variable exon A-, B-, and C-specific CD45 determinants on peripheral and thymic T cell populations. *J Immunol*, 148:19-28.
2. Bottomly K, Luqman M, Greenbaum L, Carding S, West J, Pasqualini T and Murphy DB. 1989. A monoclonal antibody to murine CD45R distinguishes CD4 T cell populations that produce different cytokines. *Eur J Immunol*, 19:617-623.
3. Johnson P, Greenbaum L, Bottomly K and Trowbridge IS. 1989. Identification of the alternatively spliced exons of murine CD45 (T200) required for reactivity with B220 and other T200-restricted antibodies. *J Exp Med*, 169:1179-1184.
4. Birkeland ML, Metlay J, Sanders VM, Fernandez-Botran R, Vitetta ES, Steinman RM and Pure E. 1988. Epitopes on CD45R [T200] molecules define differentiation antigens on murine B and T lymphocytes. *J Mol Cell Immunol*, 4:71-85.



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