



CELL LAB Rat Anti-Mouse CD45RC

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732167	Purified (UNLB) Antibody	0.5 mg
732170	Biotin (BIOT) Conjugate	0.5 mg
732171	Phycoerythrin (PE) Conjugate	0.1 mg
736565	Fluorescein-5-maleimide (FLMA) Conjugate	0.5 mg
736571	Fluorescein-5-maleimide (FLMA) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: GL24
Isotype: Rat IgM κ
Specificity: An exon C-dependent epitope of CD45 glycoprotein

CD45RC represents an exon C-dependent isoform of CD45 glycoprotein. It is expressed at high density on all B lymphocytes, at intermediate density on most CD8⁺ splenic T cells, and on two subpopulations of CD4⁺ splenic T cells with high and low density of expression. CD45RC is also present on a small subset of thymocytes.¹⁻⁴

APPLICATIONS

- Flow cytometry^{1,3}
- Immunoprecipitation¹

CHARACTERIZATION

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

WORKING DILUTIONS

Flow Cytometry:

FLMA conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ 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 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.

- The fluorescein-5-maleimide (FLMA) conjugates are supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃.
- 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.
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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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