



CELL LAB Rat Anti-Mouse CD45RB

| <u>Cat. No.</u> | <u>Form</u> | <u>Quantity</u> |
|-----------------|------------------------------|-----------------|
| 732162 | Purified (UNLB) Antibody | 0.5 mg |
| 732163 | Fluorescein (FITC) Conjugate | 0.5 mg |
| 732164 | Fluorescein (FITC) Conjugate | 0.1 mg |
| 732165 | Biotin (BIOT) Conjugate | 0.5 mg |
| 732166 | Phycoerythrin (PE) Conjugate | 0.1 mg |

For Laboratory Use Only

DESCRIPTION

| | |
|---------------------|--|
| Clone: | C363.16A |
| Isotype: | Rat IgG2a κ |
| Immunogen: | Cloned mouse Th2 cell lines ¹ |
| Specificity: | An exon B-dependent epitope of CD45 glycoprotein |

CD45RB represents an exon B-dependent form of CD45 glycoprotein. It is expressed at high density on peripheral B cells, the “suppressor/cytotoxic” subpopulation of T lymphocytes, a subset of “helper” T cells, most thymocytes and at low density on macrophages and dendritic cells.¹⁻⁴

APPLICATIONS

- Flow cytometry¹⁻³
- Immunoprecipitation²

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: | FITC 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 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

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

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

REFERENCES

1. 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.
2. 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.
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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