



CELL LAB Rat Anti-Mouse CD45 (LCA)

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732146	Purified (UNLB) Antibody	0.5 mg
732147	Fluorescein (FITC) Conjugate	0.5 mg
732148	Fluorescein (FITC) Conjugate	0.1 mg
732149	Biotin (BIOT) Conjugate	0.5 mg
732150	Phycoerythrin (PE) Conjugate	0.1 mg
732151	Allophycocyanin (APC) Conjugate	0.1 mg
732152	Spectral Red™ (SPRD) Conjugate	0.1 mg
733305	Phycoerythrin-Cyanine 5.5 (PE-Cy™5.5) Conjugate	0.1 mg
733306	Phycoerythrin-Cyanine 7 (PE-Cy™7) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: I3/2.3
Isotype: Rat IgG
Specificity: Mouse CD45 (T200 or leukocyte common antigen/LCA, all isoforms)

CD45 is the common leukocyte antigen and is expressed on all cells of hematopoietic origin except erythrocytes.¹⁻⁴ CD45 exists as a number of different isoforms which result from alternative RNA splicing of exons 4, 5 and 6. The I3/2.3 Monoclonal antibody recognizes a framework epitope present on all CD45 isoforms.¹⁻⁴ The CD45 molecule has been implicated as playing a key role in thymic development and in antigen-driven proliferation of T cells.⁴

APPLICATIONS

- Flow cytometry^{2,3}
- Immunoprecipitation^{1,3}
- Radiometric quantitation of CD45 molecules on cell surfaces¹
- Immunohistochemistry (acetone-fixed, frozen sections)

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	≤1 µg/10 ⁶ cells
	BIOT conjugate	≤1 µg/10 ⁶ cells
	PE conjugate	≤0.2 µg/10 ⁶ cells
	APC conjugate	≤0.2 µg/10 ⁶ cells
	SPRD conjugate	≤0.2 µg/10 ⁶ cells
	PE-Cy5.5 conjugate	≤0.2 µg/10 ⁶ cells
	PE-Cy7 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) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- The Spectral Red (SPRD), phycoerythrin-Cyanine 5.5 (PE-Cy5.5), and phycoerythrin-Cyanine 7 (PE-Cy7) conjugates are 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.

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REFERENCES

1. 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.
2. Haidl ID, Ng DH, Rothenberger S, Johnson P and Jefferies WA. 1995. Detection of restricted isoform expression and tyrosine phosphatase activity of CD45 in murine dendritic cells. *Eur J Immunol*, 25:3370-3374.

3. Trowbridge IS. 1978. Interspecies spleen-myeloma hybrid producing monoclonal antibodies against mouse lymphocyte surface glycoprotein, T200. *J Exp Med*, 148:313-323.
4. Trowbridge IS and Thomas ML. 1994. CD45: an emerging role as a protein tyrosine phosphatase required for lymphocyte activation and development. *Annu Rev Immunol*, 12:85-116.



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