

Rat Anti-Mouse CD45 (LCA)

Cat. No.	Form	Quantity
1660-01	Purified (UNLB) body	0.5 mg
1660-02	Fluorescein (FITC) Conjugate	0.5 mg
1660-02S	Fluorescein (FITC) Conjugate	0.1 mg
1660-08	Biotin (BIOT) Conjugate	0.5 mg
1660-09	R-phycoerythrin (R-PE) Conjugate	0.1 mg
1660-10	R-phycoerythrin-Texas Red [®] (R-PE-TXRD) Conjugate	0.1 mg
1660-11	Allophycocyanin (APC) Conjugate	0.1 mg
1660-13	*Spectral Red [™] (SPRD) Conjugate	0.1 mg
1660-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1660-16	**R-phycoerythrin-Cyanine 5.5 (R-PE-CY [™] 5.5) Conjugate	0.1 mg
1660-17	**R-phycoerythrin-Cyanine 7 (R-PE-CY [™] 7) Conjugate	0.1 mg
1660-19	**Allophycocyanin-Cyanine 7 (APC-CY [™] 7) Conjugate	0.1 mg
1660-30	**Alexa Fluor [®] 488 (AF488) Conjugate	0.1 mg
1660-31	**Alexa Fluor [®] 647 (AF647) Conjugate	0.1 mg

DESCRIPTION

Clone I3/2.3
Ig Isotype Rat IgG_{2b}
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

RESEARCH APPLICATIONS

- Flow cytometry^{2,5}
- Immunoprecipitation²

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference reagent. Representative data are included in this product insert.

WORKING DILUTIONS

Flow Cytometry:	Fluorescein and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	Biotin conjugate	≤ 1 µg/10 ⁶ cells
	R-phycoerythrin conjugate	≤ 0.2 µg/10 ⁶ cells
	R-phycoerythrin-Texas Red [®] conjugate	≤ 0.2 µg/10 ⁶ cells
	Allophycocyanin and Allophycocyanin-Cyanine 7 conjugates	≤ 0.2 µg/10 ⁶ cells
	Spectral Red [™] conjugate	≤ 0.2 µg/10 ⁶ cells
	R-phycoerythrin-Cyanine 5.5 conjugate	≤ 0.2 µg/10 ⁶ cells
	R-phycoerythrin-Cyanine 7 conjugate	≤ 0.2 µg/10 ⁶ cells
	AF647 conjugate	≤ 0.2 µg/10 ⁶ cells

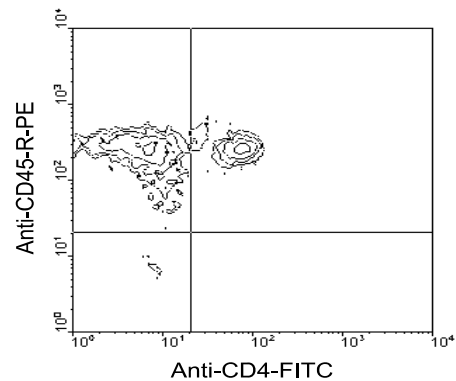
Other Applications: Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

IMUNOFLUORESCENT STAINING

Product: Rat Anti-Mouse CD45-R-PE
Cat. No.: 1660-09
Amount Used: 0.3 µg/10⁶ cells

BALB/c spleen cells were double-stained with rat anti-mouse CD45-R-PE and rat anti-mouse CD4-FITC. Small lymphocytes were gated and analyzed on a FACScan™ flow cytometer (BDIS, San Jose, CA).



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 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (R-PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red™ (SPRD), R-phycoerythrin-Texas Red® (R-PE-TXRD), R-phycoerythrin-Cyanine 7 (R-PE-CY™7), R-phycoerythrin-Cyanine 5.5 (R-PE-CY™5.5), and allophycocyanin-Cyanine 7 (APC-CY™7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°**
- The Alexa Fluor® 488 (AF488) and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.1mg in 0.2mL of PBS/NaN₃. Store at 2-8°C.
- All products should be stored at 2-8°C. Conjugated forms should **not** be frozen and should be protected from prolonged exposure to light. Each reagent is stable for the period shown on the bottle label if stored as directed.

WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

REFERENCES

1. Johnson, P, L. Greenbaum, K. Bottomley and I. S. Trowbridge. 1989. *J. Exp. Med.* 169:1179.
2. Haidl, I. D., D. H. W. Ng, S. Rothenberger, P. Johnson, and W. A. Jefferies. 1995. *Eur. J. Immunol.* 25:3370.
3. Trowbridge, I.S. 1978. *J. Exp. Med.* 148:313.
4. Trowbridge, I.S and M.L. Thomas. 1994. *Ann. Rev. Immunol.* 12:85
5. Weaver, C.T., J.T. Pingel, J.O. Nelson, and M.L. Thomas. 1991. *Mol. Cell. Biol.* 11(9):4415.

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