



CELL LAB Mouse Anti-Mouse CD72.1 (Lyb-2.1)

Cat. No.	Form	Quantity
732198	Purified (UNLB) Antibody	0.5 mg
732199	Fluorescein (FITC) Conjugate	0.5 mg
732200	Biotin (BIOT) Conjugate	0.5 mg
732201	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	10-1.D2
Isotype:	Mouse (C57/BL6) IgG2b κ
Immunogen:	DBA/2 mouse spleen cells ¹
Specificity:	Mouse CD72.1/Lyb-2.1, 45 kDa

Murine CD72.1/Lyb-2.1, a type II integral membrane glycoprotein and a member of the C-lectin family of cell surface receptors, is a differentiation antigen of B cells, and is found in mouse strains expressing the Lyb-2.1 allotype. CD72.1 is the ligand of CD5 (Ly-1) which is distributed on all T cells and a small number of B cells.^{1,2} The 10-1.D.2 monoclonal antibody (MAb) blocks binding of CD5 to CD72 on the B cell surface, which leads to inhibition of the positive signal resulting from CD5/CD72 pairing.¹ However, MAb 10-1.D.2 can itself trigger a positive signal by binding CD72.¹⁻⁵

APPLICATIONS

- Flow cytometry^{1,2}
- *In vitro* blocking and proliferation assays^{2,3}

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) conjugate is supplied as 0.5 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. Luo W, Van de, Velde, von Hoegen, I, Parnes JR and Thielemans K. 1992. Ly-1 (CD5), a membrane glycoprotein of mouse T lymphocytes and a subset of B cells, is a natural ligand of the B cell surface protein Lyb-2 (CD72). *J Immunol*, 148:1630-1634.
2. Subbarao B and Mosier DE. 1983. Induction of B lymphocyte proliferation by monoclonal anti-Lyb 2 antibody. *J Immunol*, 130:2033-2037.
3. Snow EC, Mond JJ and Subbarao B. 1986. Enhancement by monoclonal anti-Lyb-2 antibody of antigen-specific B lymphocyte expansion stimulated by TNP-Ficoll and T lymphocyte-derived factors. *J Immunol*, 137:1793-1796.
4. Robinson WH, Landolfi MM, Schafer H and Parnes JR. 1993. Biochemical identity of the mouse Ly-19.2 and Ly-32.2 alloantigens with the B cell differentiation antigen Lyb-2/CD72. *J Immunol*, 151:4764-4772.
5. Beavil AJ, Edmeades RL, Gould HJ and Sutton BJ. 1992. Alpha-helical coiled-coil stalks in the low-affinity receptor for IgE (Fc epsilon RII/CD23) and related C-type lectins. *Proc Natl Acad Sci USA*, 89:753-757.



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