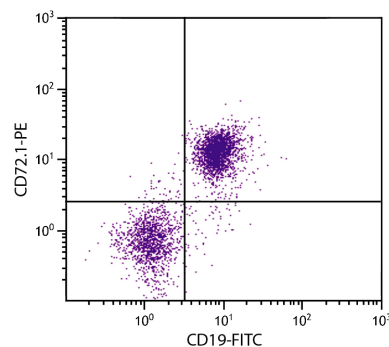




Mouse Anti-Mouse CD72.1

Cat. No.	Format	Size
1725-01	Purified (UNLB)	0.5 mg
1725-02	Fluorescein (FITC)	0.5 mg
1725-08	Biotin (BIOT)	0.5 mg
1725-09	R-phycoerythrin (PE)	0.1 mg
1725-11	Allophycocyanin (APC)	0.1 mg
1725-30	Alexa Fluor [®] 488 (AF488)	0.1 mg
1725-31	Alexa Fluor [®] 647 (AF647)	0.1 mg



DBA/2 mouse splenocytes were stained with Mouse Anti-Mouse CD72.1-PE (SB Cat. No. 1725-09) and Rat Anti-Mouse CD19-FITC (SB Cat. No. 1575-02).

Overview

Clone	10.1.D2
Isotype	Mouse (C57BL/6) IgG _{2b} K
Immunogen	DBA/2 mouse spleen cells
Specificity	Mouse CD72.1; Mr 45 kDa
Alternate Name(s)	Lyb-2.1, CD72a, Lyb-2a

Description

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 which is distributed on all T cells and a small number of B cells. The 10.1.D2 monoclonal antibody blocks binding of CD5 to CD72 on the B cell surface which leads to inhibition of the positive signal resulting from CD5/CD72 pairing. However, 10.1.D2 can itself trigger a positive signal by binding CD72.

Applications

FC – Quality tested ^{1,4-6}
 IP – Reported in literature ²
 Activ – Reported in literature ¹
 Block – Reported in literature ⁵
 Costim – Reported in literature ³

Working Dilutions

Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	PE conjugate	≤ 0.2 µg/10 ⁶ cells
	APC and AF647 conjugates	≤ 0.1 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	

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.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 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 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 (PE) and allophycocyanin (APC) conjugates are as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Alexa Fluor[®] 488 (AF488) and Alexa Fluor[®] 647 (AF647) conjugates are supplied at 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

1. Subbarao B, Mosier DE. Induction of B lymphocyte proliferation by monoclonal anti-Lyb 2 antibody. J Immunol. 1983;130:2033-7. (Immunogen, FC, Activ)
2. Robinson WH, Landolfi MM, Schäfer H, Parnes JR. Biochemical identity of the mouse Ly-19.2 and Ly-32.2 alloantigens with the B cell differentiation antigen Lyb-2/CD72. J Immunol. 1993;151:4764-72. (IP)
3. Snow EC, Mond JJ, Subbarao B. Enhancement by monoclonal anti-Lyb-2 antibody of antigen-specific B lymphocyte expansion stimulated by TNP-Ficoll and T lymphocyte-derived factors. J Immunol. 1986;137:1793-6. (Costim)
4. Robinson WH, Ying H, Miceli MC, Parnes JR. Extensive polymorphism in the extracellular domain of the mouse B cell differentiation antigen Lyb-2/CD72. J Immunol. 1992;149:880-6. (FC)
5. Luo W, van de Velde H, von Hoegen I, Parnes JR, Thielemans K. 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. 1992;148:1630-4. (Block, FC)
6. Zhu Z, Li R, Li H, Zhou T, Davis RS. FCRL5 exerts binary and compartment-specific influence on innate-like B-cell receptor signaling. Proc Natl Acad Sci USA. 2013;110:E1282-90. (FC)

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