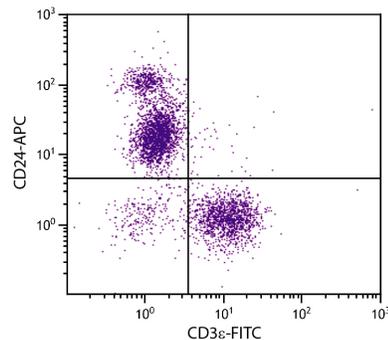




Rat Anti-Mouse CD24

Cat. No.	Format	Size
1590-01	Purified (UNLB)	0.5 mg
1590-02	Fluorescein (FITC)	0.5 mg
1590-08	Biotin (BIOT)	0.5 mg
1590-09	R-phycoerythrin (PE)	0.1 mg
1590-11	Allphycocyanin (APC)	0.1 mg
1590-13	Spectral Red® (SPRD)	0.1 mg
1590-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD24-APC (SB Cat. No. 1590-11) and Rat Anti-Mouse CD3ε-FITC (SB Cat. No. 1535-02).

Overview

Clone	91
Isotype	Rat IgG _{2a} K
Immunogen	Unknown
Specificity	Mouse CD24; Mr 35-45 kDa
Alternate Name(s)	Heat stable antigen, HSA

Description

CD24, also known as heat stable antigen, is a phosphatidylinositol-linked cell surface glycoprotein that is expressed at all stages of B cell development and on most thymocytes. The absence of expression from mature T cells is closely associated with their maturation from CD4⁺CD8⁺CD24⁺ thymocytes to either CD4⁺CD8⁻CD24⁻ or CD4⁻CD8⁺CD24⁻ T cells. CD24 is also present on mouse granulocytes, monocytes, Langerhans cells and erythrocytes. Its ligand is P-selectin (CD62P). CD24 may play a role in regulation of B cell proliferation and differentiation, and it has been proposed that heat stable antigen promotes homotypic adhesion between B lymphocytes.

Applications

FC – Quality tested ²
IHC-FS – Reported in literature ¹

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 3 µg/10 ⁶ cells
	PE, APC, and SPRD conjugates	≤ 0.3 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 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) conjugate is 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. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- 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 SDS.

References

1. Frings PW, Van Elssen CH, Wieten L, Matos C, Hupperets PS, Schouten HC, et al. Elimination of the chemotherapy resistant subpopulation of 4T1 mouse breast cancer by haploidentical NK cells cures the vast majority of mice. *Breast Cancer Res Treat.* 2011;130:773-81. (IHC-FS)
2. Zhou X, Bailey-Bucktrout S, Jeker LT, Penaranda C, Martinez-Llordella M, Ashby M, et al. Foxp3 instability leads to the generation of pathogenic memory T cells in vivo. *Nat Immunol.* 2009;10:1000-7. (FC)

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Spectral Red® is a PE/CY5 tandem conjugate.

Cy™ is a trademark of Cytiva or one of its subsidiaries.