

Mouse Anti-Human CD55

Cat. No.	Form	Quantity
9661-01	Purified (UNLB) Antibody	0.1 mg
9661-02	Fluorescein (FITC) Conjugate	100 tests
9661-09	R-phycoerythrin (R-PE) Conjugate	100 tests
9661-13	*Spectral Red™ (SPRD) Conjugate	100 tests
9661-28	Biotin-maleimide (BIMA) Conjugate	100 tests

DESCRIPTION

Clone	143-30
Ig Isotype	Mouse IgG ₁
Specificity	CD55

CD55, also known as decay accelerating factor (DAF), is a 64-73 kDa GPI-anchored single chain glycoprotein that is expressed on all cells in contact with serum, including all hematopoietic cells and the vascular endothelium. A soluble form of CD55 is present in plasma and body fluids. CD55 is a member of the regulator of complement activity (RCA) family of proteins and is thought to play a role in the protection of cells from damage by autologous complement by preventing the amplification steps of the complement cascade. CD55 expression increases upon T cell activation and antibodies to CD55 are mitogenic in the presence of phorbol esters.¹⁻⁵

RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)

CHARACTERIZATION

To insure lot-to-lot consistency, each batch of product is tested by flow cytometry to conform with the characteristics of a standard reference reagent.

WORKING DILUTIONS

Flow Cytometry:	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	Fluorescein conjugate	10 µL/10 ⁶ cells
	Biotin conjugate	10 µL/10 ⁶ cells
	R-phycoerythrin conjugate	10 µL/10 ⁶ cells
	Spectral Red™ conjugate	10 µL/10 ⁶ cells

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

For Research Purposes Only. Nor for Use in Diagnostic or Therapeutic Applications.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.1 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.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C.
- The biotin-maleimide (BIMA) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C.
- The R-phycoerythrin (R-PE) conjugate is supplied as 100 tests 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 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

WARNING

Reagents contain sodium azide which 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

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2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. *The Leukocyte Antigens Facts Book, 2nd Edition*, CD55 Section, Academic Press, New York, p. 281.
3. Lublin, D.M., and J.P. Atkinson. 1989. *Annu. Rev. Immunol.* 7:35.
4. Holmes, C.H., K.L. Simpson, S.D. Wainwright, C.G. Tate, J.M. Houlihan, I.H. Sawyer, I.P. Rogers, F.A. Spring, D.J. Anstee, and M.J. Tanner. 1990. *J. Immunol.* 144:3099.
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