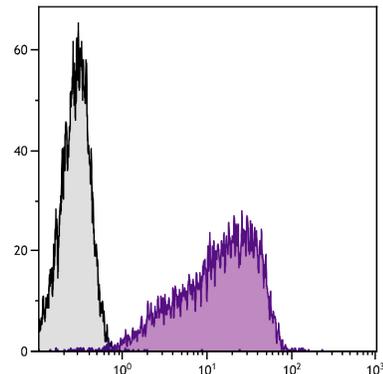




Mouse Anti-Human CD55

Cat. No.	Format	Size
9661-01	Purified (UNLB)	0.1 mg
9661-02	Fluorescein (FITC)	100 tests
9661-02S	Fluorescein (FITC)	25 tests
9661-09	R-phycoerythrin (PE)	100 tests
9661-09S	R-phycoerythrin (PE)	25 tests
9661-13	Spectral Red® (SPRD)	100 tests



Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD55-PE (SB Cat. No. 9661-09).

Overview

Clone	143-30
Isotype	Mouse IgG _{1κ}
Immunogen	PHA activated peripheral blood mononuclear cells
Specificity	Human CD55; Mr 80 kDa
Alternate Name(s)	DAF, decay accelerating factor
Workshop	IV N7

Description

CD55, also known as decay accelerating factor (DAF), is an 80 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.

Applications

FC – Quality tested ^{5,6}
 IHC-FS – Reported in literature ¹
 IHC-PS – Reported in literature ²
 IP – Reported in literature ³
 WB-NR – Reported in literature ⁴

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 μg/10 ⁶ cells
	FITC, PE, and SPRD conjugates	10 μL/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 0.1 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 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 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 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. Koretz K, Brüderlein S, Henne C, Möller P. Decay-accelerating factor (DAF, CD55) in normal colorectal mucosa, adenomas and carcinomas. *Br J Cancer.* 1992;66:810-4. (IHC-FS)
2. Wu J, Lei L, Wang S, Gu D, Zhang J. Immunohistochemical expression and prognostic value of CD97 and its ligand CD55 in primary gallbladder carcinoma. *J Biomed Biotechnol.* 2012;2012:587672. (IHC-PS)
3. Stefanová I, Hořejší V, Ansoategui IJ, Knapp W, Stockinger H. GPI-anchored cell-surface molecules complexed to protein tyrosine kinases. *Science.* 1991;254:1016-9. (IP)
4. Clayton A, Harris CL, Court J, Mason MD, Morgan BP. Antigen-presenting cell exosomes are protected from complement-mediated lysis by expression of CD55 and CD59. *Eur J Immunol.* 2003;33:522-31. (WB)
5. Zeuke S, Ulmer A, Kusumoto S, Katus HA, Heine H. TLR4-mediated inflammatory activation of human coronary artery endothelial cells by LPS. *Cardiovasc Res.* 2002;56:126-34. (FC)
6. Haas P, Aggermann T, Nagl M, Steindl-Kuscher K, Krugluger W, Binder S. Implication of CD21, CD35, and CD55 in the pathogenesis of age-related macular degeneration. *Am J Ophthalmol.* 2011;152:396-9. (FC)

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Spectral Red® is a PE/CY5 tandem conjugate.

Cy® is a registered trademark of GE Healthcare.