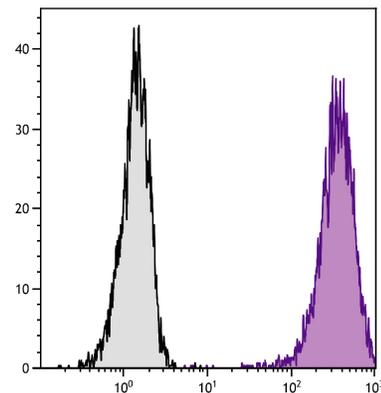




## Mouse Anti-Human CD71

Cat. No.	Format	Size
9670-01	Purified (UNLB)	0.1 mg
9670-02	Fluorescein (FITC)	100 tests
9670-08	Biotin (BIOT)	100 tests
9670-09	R-phycoerythrin (PE)	100 tests
9670-11	Allophycocyanin (APC)	100 tests
9670-13	Spectral Red® (SPRD)	100 tests
9670-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



Human histiocytic lymphoma cell line U-937 was stained with Mouse Anti-Human CD71-APC (SB Cat. No. 9670-11).

### Overview

<b>Clone</b>	RVS-10
<b>Isotype</b>	Mouse IgG <sub>1κ</sub>
<b>Immunogen</b>	Unknown
<b>Specificity</b>	Human CD71; Mr 95 kDa
<b>Alternate Name(s)</b>	TFR, TRFR, transferrin receptor, T9
<b>Workshop</b>	N/A

### Description

CD71 is a 95 kDa type II heterodimeric transmembrane glycoprotein that is the receptor for transferrin. CD71 expression is very low on resting leukocytes but is upregulated upon activation. CD71 plays a critical role in cell proliferation by controlling the supply of iron which is essential for many metabolic pathways through the binding and endocytosis of transferrin.

### Applications

FC – Quality tested <sup>5</sup>  
 ICC – Reported in literature <sup>1-3</sup>  
 Drug Delivery – Reported in literature <sup>4</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 µg/10 <sup>6</sup> cells
	FITC, BIOT, PE, APC and SPRD conjugates	10 µL/10 <sup>6</sup> 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

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- 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 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> 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/NaN<sub>3</sub> 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

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

## References

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1. O'Donnell V, LaRocco M, Duque H, Baxt B. Analysis of foot-and-mouth disease virus internalization events in cultured cells. *J Virol.* 2005;79:8506-18. (ICC)
2. Keyel PA, Mishra SK, Roth R, Heuser JE, Watkins SC, Traub LM. A single common portal for clathrin-mediated endocytosis of distinct cargo governed by cargo-selective adaptors. *Mol Biol Cell.* 2006;17:4300-17. (ICC)
3. Di Pucchio T, Chatterjee B, Smed-Sørensen A, Clayton S, Palazzo A, Montes M, et al. Direct proteasome-independent cross-presentation of viral antigen by plasmacytoid dendritic cells on major histocompatibility complex class I. *Nat Immunol.* 2008;9:551-7. (ICC)
4. Patil R, Portilla-Arias J, Ding H, Inoue S, Konda B, Hu J. Temozolomide delivery to tumor cells by a multifunctional nano vehicle based on poly(β-L-malic acid). *Pharm Res.* 2010;27:2317-29. (Drug Delivery)
5. Seiffert M, Cant C, Chen Z, Rappold I, Brugger W, Kanz L, et al. Human signal-regulatory protein is expressed on normal, but not on subsets of leukemic myeloid cells and mediates cellular adhesion involving its counterreceptor CD47. *Blood.* 1999;94:3633-43. (FC)

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Spectral Red® is a PE/CY5 tandem conjugate.

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