

## Monoclonal Antibody to CD71 / TfRc - FITC

<b>Alternate names:</b>	TfR1, Transferrin receptor protein 1, p90
<b>Catalog No.:</b>	SM1166FT
<b>Quantity:</b>	25 µg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	The transferrin receptor has been structurally characterized as a sulfide bound dimer of identical glycoprotein subunits of 95 kDa. The transferrin receptor is not present on resting blood lymphocytes. On PBL, the receptor appears after activation. The expression of transferrin receptor is coordinately regulated with cell growth. Present on T and B cell lines. The soluble (or serum) transferrin receptor (sTfR) is a circulating truncated form of the membrane receptor protein; it is an 85 kDa glycoprotein forming in serum a 320 kDa complex with diferric transferrin. The most important clinical use of the sTfR determination is in the differential diagnosis between iron deficiency anaemia and the anaemia of chronic disease.
<b>Uniprot ID:</b>	<a href="#">P02786</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	DF1513
<b>Immunogen:</b>	KG1 cell line. <b>Remarks:</b> Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Affinity Chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD71 cell surface antigen. <b>Species:</b> Human. Cross reacts with Rhesus Monkey, Mustelid. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

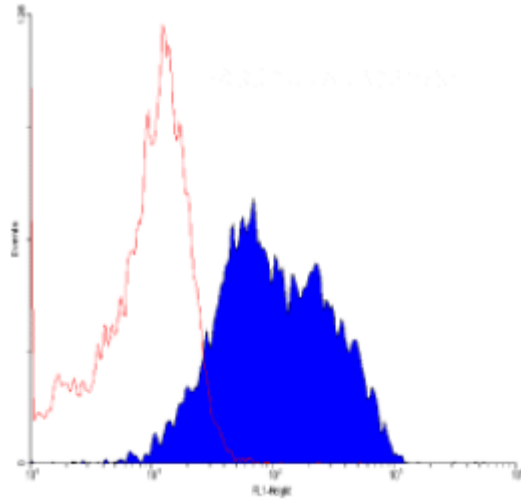
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- General References:** 1. Sopper, E. et al. (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. *Cytometry* 29: 351-362.  
2. Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. *Vet Immunol Immunopathol.* 132:109-15.

**Pictures:**



Staining of MOLT4 (Human acute lymphoblastic leukemia) cells with Mouse anti Human CD71 antibody -FITC conjugated (SM1166F).

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