

## Monoclonal Antibody to CD71 / TFRC - FITC

<b>Alternate names:</b>	TfR1, Transferrin receptor protein 1, p90
<b>Catalog No.:</b>	SM044F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD71 antigen expression is low on normal resting lymphocytes and is expressed on all cells upon activation. The transferrin receptor is essential for iron transport into proliferating cells, such as mitogen-activated and alloantigen-activated lymphoblasts. The transferrin receptor is also present on early erythroid cells but is lost as reticulocytes differentiate into mature erythrocytes.
<b>Uniprot ID:</b>	<a href="#">Q62351</a>
<b>NCBI:</b>	<a href="#">NP_035768.1</a>
<b>GeneID:</b>	<a href="#">22042</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	YTA 74.4
<b>Immunogen:</b>	Concanavilin A activated mouse spleen cells. Spleen cells from immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Ion Exchange Chromatography. <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> The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. 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 marker, the transferrin receptor. Stains dividing cells, and can be used to distinguish resting from activated T cells. <b>Species:</b> Mouse. 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. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General References:</b>	1. Lesley, J. et al. (1984) Expression of transferrin receptor on murine haematopoietic progenitors. Cell. Immunol. 83: 14-15.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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2. Trowbridge, I.S. et al. (1982) Murine cell surface transferrin receptor: studies with an anti-receptor monoclonal antibody. J. Cell. Physiol. 112: 403-410.

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