

## Monoclonal Antibody to CD71 / TfRc - PE

<b>Alternate names:</b>	TfR1, Transferrin receptor protein 1, p90
<b>Catalog No.:</b>	SM044R
<b>Quantity:</b>	100 Tests
<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="#">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 an immunised DA rats were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized 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> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with distilled water.
<b>Applications:</b>	Flow Cytometry: 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 cell surface antigen, expressed by all dividing cells. CD71 acts as a receptor for transferrin. <b>Species:</b> Mouse. Other species not tested.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:**

Prior to and following reconstitution store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

**General References:**

1. Lesley, J. et al. (1984) Expression of transferrin receptor on murine haematopoietic progenitors. *Cell. Immunol.* 83: 14-15.

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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