

## Product datasheet for **SM044R**

### Tfrc Rat Monoclonal Antibody [Clone ID: YTA 74.4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	YTA 74.4
Applications:	FC
Recommended Dilution:	Flow Cytometry: The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	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.
Specificity:	This antibody recognises the CD71 cell surface antigen, expressed by all dividing cells. CD71 acts as a receptor for transferrin.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE State: Lyophilized purified IgG fraction. Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with distilled water.
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	transferrin receptor
Database Link:	<a href="#">Entrez Gene 22042 Mouse Q62351</a>



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**Background:**

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.

**Synonyms:**

TfR1, p90, Transferrin receptor protein 1