

Product datasheet for **SM044F**

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: Use 10 µl of neat antibody to label 1 ⁰ cells in 100 µl. 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 immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.
Specificity:	This antibody recognises the Mouse CD71 marker, the transferrin receptor. Stains dividing cells, and can be used to distinguish resting from activated T cells.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer Label: FITC State: Liquid purified IgG fraction Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	FITC
Storage:	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.
Stability:	Shelf life: one year from despatch.
Gene Name:	transferrin receptor
Database Link:	Entrez Gene 22042 Mouse Q62351



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Background:

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.

Synonyms:

TfR1, p90, Transferrin receptor protein 1