

## Product datasheet for **SM3104F**

### CD71 (TFRC) Mouse Monoclonal Antibody [Clone ID: MEM-75]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-75
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry analysis</b> of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Pre-B cell line NALM-6
Specificity:	The antibody reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes. The antibody does not block binding of transferrin to the receptor.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use.
Conjugation:	FITC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! 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 7037 Human P02786</a>



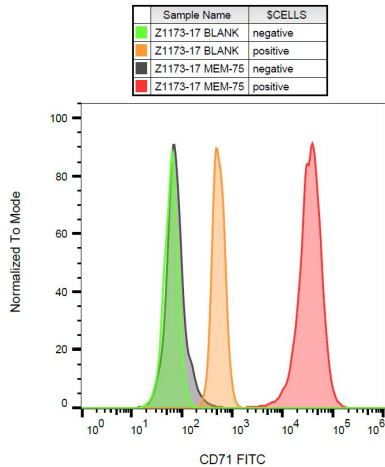
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**Background:**

CD71 (transferrin receptor) is a type II transmembrane glycoprotein expressed as homodimer in erythroid blood cell line and in activated leukocytes. Upon binding of holotransferrin (complex of transferrin and iron ions), CD71 is internalized by clathrin-mediated endocytosis. Acidification of endosomes by vesicular membrane proton pumps leads to dissociation of iron ions, whereas transferrin (apotransferrin) remains associated with CD71 and recycles to the cell surface, where it is released upon exposure to normal pH. CD71 is also involved in uptake of non-transferrin bound iron.

**Synonyms:**

TfR1, p90, Transferrin receptor protein 1

**Product images:**


Surface staining of CD71 in K562 cells (positive) and lymphocytes (negative) using anti-CD71 (MEM-75) FITC.