

Product datasheet for SM3104F

OriGene Technologies, Inc.

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

Product data:

Product Type: Primary Antibodies

Clone Name: MEM-75

Applications: FC

Recommended Dilution: Flow Cytometry analysis of human blood cells using 20 μl reagent / 100 μl of whole blood

or 106 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: Entrez Gene 7037 Human

P02786





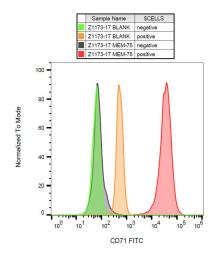
Background:

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 lymfocytes (negative) using anti-CD71 (MEM-75) FITC.