

# TFRC monoclonal antibody, clone MEM-75 (PE)

Catalog # MAB5016

Size 100 Reactions

## Specification

|                             |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against native TFRC.                                                                                                                                                                                                                                                                 |
| <b>Immunogen</b>            | Native purified TFRC from NALM-6 human pre-B cell line.                                                                                                                                                                                                                                                               |
| <b>Host</b>                 | Mouse                                                                                                                                                                                                                                                                                                                 |
| <b>Theoretical MW (kDa)</b> | 95                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity</b>           | Human                                                                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>          | This antibody reacts with CD71 antigen (transferrin receptor), a 95 KDa type II homodimeric transmembrane glycoprotein expressed on activated B and T lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes. This antibody does not block binding of transferrin to the receptor. |
| <b>Form</b>                 | Liquid                                                                                                                                                                                                                                                                                                                |
| <b>Conjugation</b>          | PE                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>              | IgG1                                                                                                                                                                                                                                                                                                                  |
| <b>Recommend Usage</b>      | Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or $10^6$ cells in a suspension)<br>The optimal working dilution should be determined by the end user.                                                                                                                                               |
| <b>Storage Buffer</b>       | In PBS (0.2% BSA, 0.09% sodium azide)                                                                                                                                                                                                                                                                                 |
| <b>Storage Instruction</b>  | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                     |
| <b>Note</b>                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                                                                                                |

## Applications

- Flow Cytometry

## Gene Info — TFRC

|                    |                                  |
|--------------------|----------------------------------|
| Entrez GeneID      | <a href="#">7037</a>             |
| Gene Name          | TFRC                             |
| Gene Alias         | CD71, TFR, TFR1, TRFR            |
| Gene Description   | transferrin receptor (p90, CD71) |
| Omim ID            | <a href="#">190010</a>           |
| Gene Ontology      | <a href="#">Hyperlink</a>        |
| Gene Summary       | O                                |
| Other Designations | transferrin receptor             |

## Publication Reference

- [Hsa, an adhesin of Streptococcus gordonii DL1, binds to alpha2-3-linked sialic acid on glycophorin A of the erythrocyte membrane.](#)  
 Yajima A, Urano-Tashiro Y, Shimazu K, Takashima E, Takahashi Y, Konishi K.  
 Microbiology and Immunology 2008 Feb; 52(2):69.
- [Flow cytometric analysis of human bone marrow perfusion cultures: erythroid development and relationship with burst-forming units-erythroid.](#)  
 Rogers CE, Bradley MS, Palsson BO, Koller MR.  
 Exp Hematol 1996 Apr; 24(5):597.
- [Cell surface antigen expression in human erythroid progenitors: erythroid and megakaryocytic markers.](#)  
 Nakahata T, Okumura N.  
 Leukemia & Lymphoma 1994 May; 13(5-6):401.

## Pathway

- [Endocytosis](#)
- [Hematopoietic cell lineage](#)

## Disease

- [Abortion](#)
- [Adenomatous Polyps](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hemochromatosis](#)
- [Hepatitis C](#)
- [Hereditary hemochromatosis](#)
- [Hyperparathyroidism](#)
- [Insulin Resistance](#)
- [Iron Overload](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)

- [Myeloproliferative Disorders](#)
- [Ovarian cancer](#)
- [Porphyria](#)
- [Porphyria Cutanea Tarda](#)
- [Pregnancy Complications](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)