

Datasheet for ABIN94221

**anti-Transferrin Receptor antibody****6** Images**1** Publication[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	Transferrin Receptor (TFRC)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Transferrin Receptor antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

## Product Details

Immunogen:	NALM-6 human pre-B cell line
Clone:	MEM-75
Isotype:	IgG1
Specificity:	The antibody MEM-75 reacts with an extracellular epitope of 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. The antibody MEM-75 does not block binding of transferrin to the receptor.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 98 % (by SDS-PAGE)

## Target Details

Target:	Transferrin Receptor (TFRC)
Alternative Name:	CD71 ( <a href="#">TFRC Products</a> )
Background:	Transferrin receptor,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.,TfR1, TfR, TR, Trfr, T9, p90, TFRC
Gene ID:	7037
UniProt:	<a href="#">P02786</a>
Pathways:	<a href="#">Transition Metal Ion Homeostasis</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 0.5-4 µg/mL.
Restrictions:	For Research Use only

## Handling

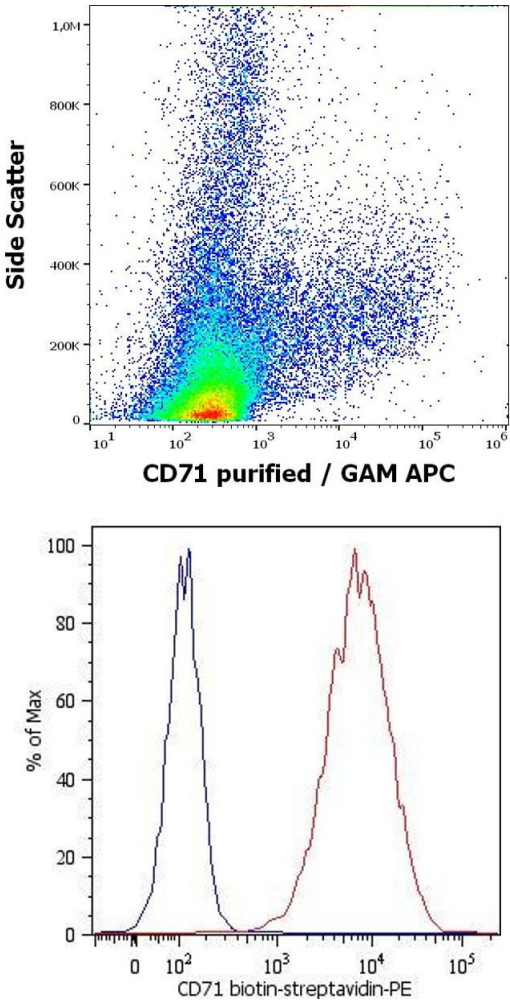
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

Product cited in:	Beck, Balogh, Kis, Izsépi, Cervenak, László, Bíró, Liliom, Mocsár, Vámosi, Füst, Matko: "New cholesterol-specific antibodies remodel HIV-1 target cells' surface and inhibit their in vitro virus
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production." in: **Journal of lipid research**, Vol. 51, Issue 2, pp. 286-96, (2010) ([PubMed](#)).

Images

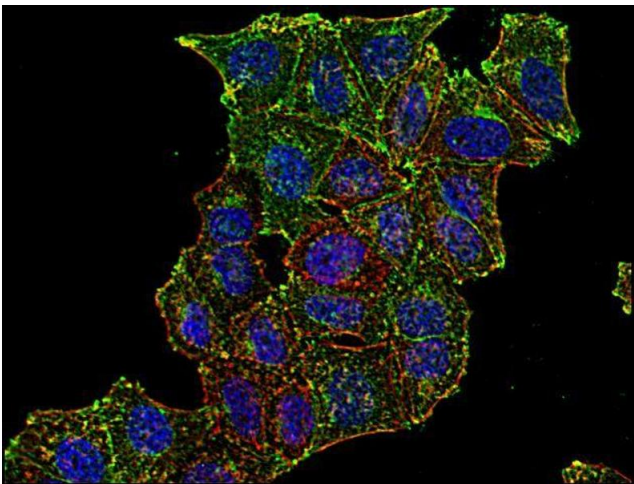


Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD71 (MEM-75) purified antibody (concentration in sample 0.56 µg/mL, GAM APC).

Flow Cytometry

**Image 2.** Surface staining of NALM-6 human peripheral blood pre-B cell leukemia cell line with anti-CD71 (MEM-75) biotin; detection by Streptavidin-PE . Total viable cells were used for analysis.



Immunofluorescence

**Image 3.** Immunofluorescence staining of CD71 in human HeLa cell line using anti-CD71 (; green). Actin cytoskeleton decorated by phalloidin (red) and cell nuclei stained with DAPI (blue)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN94221.