

Datasheet for ABIN94222

anti-Transferrin Receptor antibody (Biotin)**4** 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 conjugated to Biotin
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 antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

Target:	Transferrin Receptor (TFRC)
Alternative Name:	CD71 (TFRC Products)
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:	P02786
Pathways:	Transition Metal Ion Homeostasis

Application Details

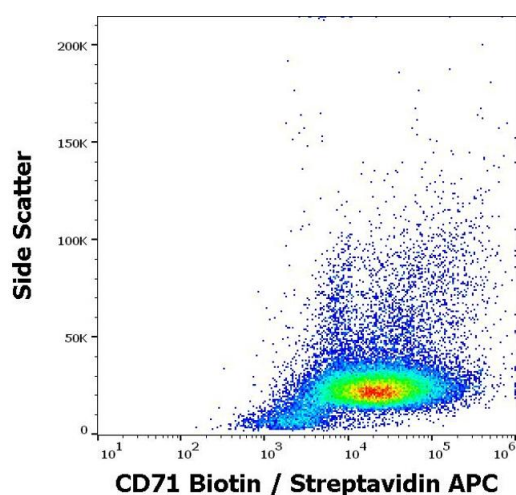
Application Notes:	Flow cytometry: Recommended dilution: 2-5 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

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:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

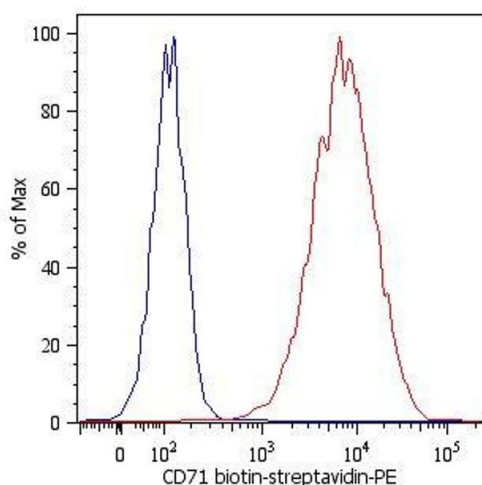
Product cited in: Beck, Balogh, Kis, Izsépi, Cervenak, László, Bíró, Liliom, Mocsár, Vámosi, Füst, Matko: "New cholesterol-specific antibodies remodel HIV-1 target cells' surface and inhibit their in vitro virus production." in: **Journal of lipid research**, Vol. 51, Issue 2, pp. 286-96, (2010) ([PubMed](#)).

Images



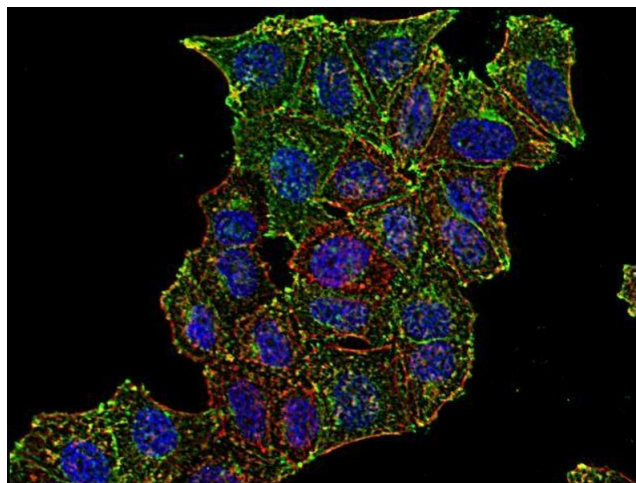
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD71 (MEM-75) Biotin antibody (concentration in sample 0,6 µg/mL, Streptavidin 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)

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN94222.