

Anti-Hu CD71 Purified TFRC Monoclonal Antibody

Catalog Number: M00591

About TFRC

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.

Overview

Product Name	Anti-Hu CD71 Purified TFRC Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD71 Purified TFRC Monoclonal Antibody (Catalog# M00591). Tested in Flow Cytometry, IP, ICC application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, ICC
Clonality	Monoclonal MEM-75
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P02786

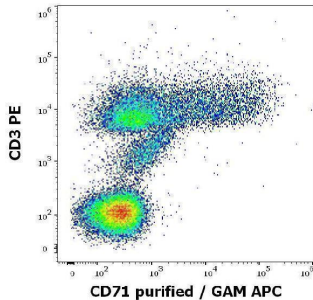
Technical Details

Immunogen	NALM-6 human pre-B cell line. 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.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.

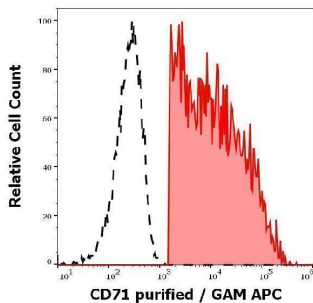
Suggested Dilutions

Flow cytometry: 0.5-4 ug/ml.

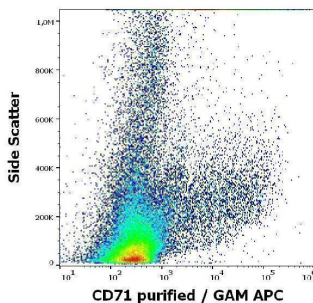
Anti-Hu CD71 Purified TFRC Monoclonal Antibody (M00591) Images



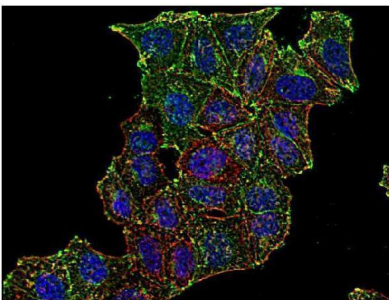
Flow cytometry multicolor surface staining pattern of human PHA stimulated lymphocytes using anti-human CD3 (UCHT1) PE antibody (20 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD71 (MEM-75) purified antibody (concentration in sample 0.56 μ g/ml, GAM APC).



Separation of human CD3 positive CD71 positive lymphocytes (red-filled) from CD3 negative CD71 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD71 (MEM-75) purified antibody (concentration in sample 0.56 μ g/ml, GAM APC).



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 μ g/ml, GAM APC).



Immunocytochemistry staining of CD71 in human HeLa cell line using anti-CD71 (MEM-75; green). Actin cytoskeleton decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

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