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Purified Mouse Anti-Human CD71 Monoclonal Antibody

CLX67AP

Lot: A00070507

Size: 0.1mg

Clone: MEM-75

Isotype: Mouse IgG1

Specificity: The antibody MEM-75 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. The antibody MEM-75 does not block binding of transferrin to the receptor. HLDA IV; WS Code A 45 HLDA V; WS Code T T-165

Immunogen: NALM-6 human pre-B cell line

Species Reactivity: Human

Application:

Flow Cytometry Immunoprecipitation Immunocytochemistry

Purity: > 98% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8oC. For long-term storage aliquot and store at -20oC. Avoid freeze/thaw cycles.

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.

Continued Overleaf.....

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