



11-353-C100

Monoclonal Antibody to CD71 Purified Antibody (0.1 mg)

Clone:	MEM-189
Isotype:	Mouse IgG1
Specificity:	<p>The antibody MEM-189 reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes.</p> <p>The antibody MEM-189 does not block binding of transferrin to the receptor. HLDA VI; WS Code NL N-L025</p>
Regulatory Status:	RUO
Immunogen:	KG1 human acute myelogenous leukaemia cell line
Species Reactivity:	Human
Application:	<p>Western Blotting Application note: Non-reducing conditions. Flow Cytometry Recommended dilution: 2 µg/ml Immunoprecipitation</p>
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>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.</p>

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Antibodies

- References:**
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 - *Taketani S: Aquisition, mobilization and utilization of cellular iron and heme: endless findings and growing evidence of tight regulation. Tohoku J Exp Med. 2005 Apr;205(4):297-318.
 - *Graham RM, Chua AC, Herbison CE, Olynyk JK, Trinder D: Liver iron transport. World J Gastroenterol. 2007 Sep 21;13(35):4725-36.
 - *Graham RM, Reutens GM, Herbison CE, Delima RD, Chua AC, Olynyk JK, Trinder D: Transferrin receptor 2 mediates uptake of transferrin-bound and non-transferrin-bound iron. J Hepatol. 2008 Feb;48(2):327-34.
 - *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
 - *Schatzmaier P, Supper V, Göschl L, Zwirzitz A, Eckerstorfer P, Ellmeier W, Huppa JB, Stockinger H: Rapid multiplex analysis of lipid raft components with single-cell resolution. Sci Signal. 2015 Sep 22;8(395):rs11

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