



11-353-C025

## Monoclonal Antibody to CD71 Purified Antibody (0.025 mg)

<b>Clone:</b>	MEM-189
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	<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>
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	KG1 human acute myelogenous leukaemia cell line
<b>Species Reactivity:</b>	Human
<b>Application:</b>	<p>Western Blotting Application note: Non-reducing conditions. Flow Cytometry Recommended dilution: 2 µg/ml Immunoprecipitation</p>
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<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>

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Rouault TA: How mammals acquire and distribute iron needed for oxygen-based metabolism. PLoS Biol. 2003 Dec;1(3):E79.
  - \*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

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at [www.exbio.cz](http://www.exbio.cz).

**For laboratory research only, not for drug, diagnostic or other use.**

---

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)