



1B-232-C100

## Monoclonal Antibody to CD58 Biotin conjugated (0.1 mg)

<b>Clone:</b>	MEM-63
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody MEM-63 reacts with CD58 (LFA-3), a 40-70 kDa glycoprotein distributed over many tissues, leukocytes, erythrocytes, endothelial cells, epithelial cells and fibroblasts. HLDA VI; WS Code AS A047
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	NALM-6 human pre-B cell line
<b>Species Reactivity:</b>	Human, Porcine
<b>Preparation:</b>	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
<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>Usage:</b>	Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working dilution is 1:200. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD58 (LFA-3) is an immunoglobulin family adhesion molecule expressed by both hematopoietic and non-hematopoietic cells (often on antigen presenting cells) and serving as ligand of CD2. This interaction is important for T cell-mediated immunity. CD58 is expressed in transmembrane form and in GPI-anchored form; the later is constitutively associated with protein kinases whereas the transmembrane form activates kinase activity upon triggering. CD58 is a powerful tool for detection of minimal residual disease in acute lymphocytic leukemia, and for evaluation of liver damage related with hepatitis B.

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



**Antibodies**

- References:**
- \*Bayas MV, Schulten K, Leckband D: Forced detachment of the CD2-CD58 complex. *Biophys J.* 2003 Apr;84(4):2223-33.
  - \*Veltroni M, De Zen L, Sanzari MC, Maglia O, Dworzak MN, Ratei R, Biondi A, Basso G, Gaipa G; I-BFM-ALL-FCM-MRD-Study Group: Expression of CD58 in normal, regenerating and leukemic bone marrow B cells: implications for the detection of minimal residual disease in acute lymphocytic leukemia. *Haematologica.* 2003 Nov;88(11):1245-52.
  - \*Ariel O, Kukulansky T, Raz N, Hollander N: Distinct membrane localization and kinase association of the two isoforms of CD58. *Cell Signal.* 2004 Jun;16(6):667-73.
  - \*Sheng L, Li J, Qi BT, Ji YQ, Meng ZJ, Xie M: Investigation on correlation between expression of CD58 molecule and severity of hepatitis B. *World J Gastroenterol.* 2006 Jul 14;12(26):4237-40.
  - \*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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)