



A4-232-T025

Monoclonal Antibody to CD58 Alexa Fluor® 488 conjugated (25 tests)

Clone:	MEM-63
Isotype:	Mouse IgG1
Specificity:	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
Immunogen:	NALM-6 human pre-B cell line
Species Reactivity:	Human, Porcine
Preparation:	The purified antibody is conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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).

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EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 664 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz