



1B-232-C100

Monoclonal Antibody to CD58 Biotin conjugated (0.1 mg)

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 Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Usage:	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.
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.
References:	*Bayas MV, Schulten K, Leckband D: Forced detachment of the CD2-CD58 complex. <i>Biophys J.</i> 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. <i>Haematologica.</i> 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. <i>Cell Signal.</i> 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. <i>World J Gastroenterol.</i> 2006 Jul 14;12(26):4237-40. *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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