

anti-human/ -porcine CD58 PE-conjugated

PE-conjugated Monoclonal Antibody MEM-63 to CD58

Cat-No: **21270584**

500 µl

Clone: MEM-63

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

Isotype subclass: Mouse IgG1

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. No reconstitution is necessary.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 15 mM sodium azide (pH 7.4).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 C. Avoid prolonged exposure to light.

Application: Flow Cytometry

Immunoprecipitation

Western Blotting: non reducing conditions

Functional Application: The antibody inhibits CD2/CD58 interactions.

References: • *Bayas MV and other: Biophys J. 2003 Apr;84(4):2223-33.

• *Veltroni M and other: 2003 Nov;88(11):1245-52.

• *Ariel O and other: 2004 Jun;16(6):667-73.

• *Sheng L and other: 2006 Jul 14;12(26):4237-40.

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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