

# CD18 Monoclonal Antibody (MEM-48), FITC

Catalog NumberMA1-19564

Product data sheet

| Details            |  |
|--------------------|--|
| Size               | 100 Tests  |
| Host/Isotope       | Mouse / IgG1   |
| Class              | Monoclonal   |
| Type               | Antibody   |
| Clone              | MEM-48   |
| Immunogen          | Leucocytes from a patient suffering from a LGL type leukaemia. |
| Conjugate          | FITC   |
| Form               | Liquid   |
| Purification       | Size-exclusion chromatography                                  |
| Storage buffer     | PBS, pH 7.4, with 0.2% BSA                                     |
| Contains           | 15mM sodium azide  |
| Storage Conditions | 4° C, store in dark, DO NOT FREEZE!                            |

| Species Reactivity   |                    |
|--|--------------------|
| Species reactivity   | Human              |
|  |                    |
| Tested Applications  | Dilution *         |
| Flow Cytometry (Flow)  | 20 µL/1x10^6 cells |
|  |                    |
| * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |                    |

## Product specific information

This antibody recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin beta2 subunit; beta2 integrin). It will not cross-react with canine.

## Background/Target Information

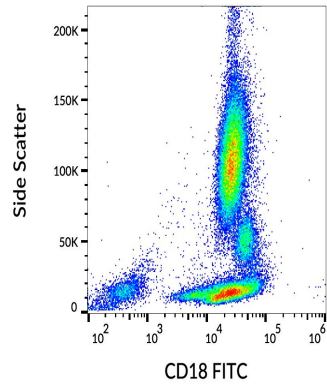
CD18 integrin beta 2 subunit is a 90 kDa type I transmembrane protein expressed on all leucocytes. CD18 can combine with integrin molecules CD11a-c to form heterodimers at the cell surface, and these heterodimers are known to participate in the process of cell adhesion as well as cell-surface mediated signaling. CD18 forms heterodimers with four types of CD11 molecule to constitute leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1), alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits, and these integrins are essential for proper leukocyte migration, mediating intercellular contacts. Absence of CD18 leads to leukocyte adhesion deficiency-1, severe reduction of CD18 expression leads to the development of a psoriasiform skin disease. CD18 is also a target of Mannheimia (Pasteurella) haemolytica leukotoxin and is sufficient to mediate leukotoxin-mediated cytolysis. Defects in the CD18 gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the CD18 protein have been identified.

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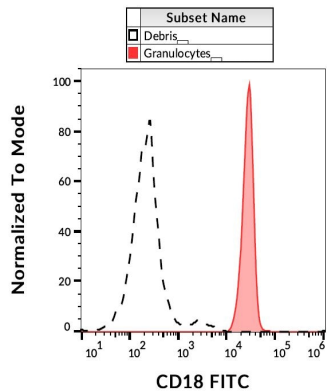
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**CD18 Antibody (MA1-19564) in Flow**

Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD18 (MEM-48) FITC Monoclonal antibody (Product # MA1-19564).



**CD18 Antibody (MA1-19564) in Flow**

Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD18 (MEM-48) FITC Monoclonal antibody (Product # MA1-19564).

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