

TECHNICAL DATA SHEET

CyFlow™ CD18 Purified Anti-Hu; Clone MEM-48

REF AD113673

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD18
Alternative Names	b2 integrin
Clone	MEM-48
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Dog
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Leukocytes of a patient suffering from LGL-type Leukemia

Specificity

The mouse monoclonal antibody MEM-48 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen. CD18 is a 90-95 kDa type I transmembrane protein expressed on all leukocytes.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD18 (integrin β 2 subunit) forms heterodimers with four types of CD11 molecule to constitute leukocyte (β 2) integrins: α L β 2 (CD11a/CD18, LFA-1), α M β 2 (CD11b/CD18, Mac-1, CR3), α X β 2 (CD11c/CD18) and α D β 2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits. 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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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