

TECHNICAL DATA SHEET

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

REF CC314406



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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	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Dog
Quantity	100 tests
Immunogen	Leukocytes of a patient suffering from LGL-type leukemia

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



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.

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10- μ l reagent-/ 100- μ l of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.09% (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.

Warnings

Non-Hazardous Statement: This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

Safety Data Sheet Statement: Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet.










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Symbols

	Reagent catalogue number		Contains sufficient for <n> tests
	For Research Use Only. Not for use in diagnostic and therapeutic procedures.		Temperature limitation
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use by		