

Product datasheet for **BM4031APC**

CD18 (ITGB2) (activation epitope) Mouse Monoclonal Antibody [Clone ID: MEM-148]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-148
Applications:	FC
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peripheral blood mononuclear cells
Specificity:	The antibody MEM-148 recognizes the epitope exposed on free human CD18 chains unassociated with CD11 as well as on high-affinity state of LFA-1. CD18 (integrin β2 subunit; β2 integrin) is a 90-95 kDa type I transmembrane protein expressed on all leukocytes.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: APC State: Liquid purified Ig fraction Label: Conjugated with cross-linked Allophycocyanin under optimum conditions
Purification:	Size-exclusion chromatography
Conjugation:	APC
Storage:	Store the antibody in the dark at 2-8°C. Do Not Freeze! Avoid prolonged exposure to light.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin subunit beta 2
Database Link:	Entrez Gene 3689 Human P05107



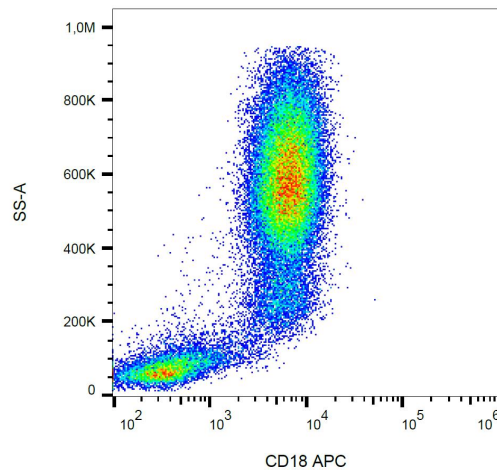
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Background:

CD18, integrin $\beta 2$ subunit, forms heterodimers with four types of CD11 molecule to constitute leukocyte ($\beta 2$) integrins: $\alpha L\beta 2$ (CD11a/CD18, LFA-1), $\alpha M\beta 2$ (CD11b/CD18, Mac-1, CR3), $\alpha X\beta 2$ (CD11c/CD18) and $\alpha D\beta 2$ (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.

Synonyms:

Integrin beta-2, MFI7

Product images:

Surface staining of CD18 in human peripheral blood with anti-CD18 (MEM-148) APC.