

Product datasheet for **BM4031**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-148
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Suitable for Immunohistochemistry on frozen sections (0.2 µg/ml, 1/2000), Flow cytometry (use 5 µl of the suggested working dilution to label 10e6 cells), Immunoprecipitation and Western blotting (non-reduced). Suggested positive control: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	MEM-148 recognizes the β 2 integrin subunit that pairs with each of four distinctive CD11 α subunits to form the CD11/CD18 integrin heterodimers. MEM-148 potently promoted adhesion of LFA-1/K562 transfectants and neutrophils to their respective immobilized ligands, suggesting it to be one of the select class of monoclonal antibodies which can act on the ectodomain of the integrin to induce adhesion. Expression of the epitope recognized by MEM-148 is minimal on β 2 integrin transfectants, T cells, eosinophils, monocytes and neutrophils.
Formulation:	PBS, pH 7.2, containing 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% sodium azide as a preservative. State: Purified State: Lyophilized diluted ascites.
Concentration:	0.4 mg/ml
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin subunit beta 2



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Database Link: [Entrez Gene 3689 Human P05107](#)

Background: CD18 is an integrin. Integrins are integral cell surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA1, and combines with the alpha M chain to form the integrin Mac1. Integrins are known to participate in cell adhesion as well as cell surface mediated signalling. CD18 is expressed by most leucocytes. Defects in the CD18 gene result in leukocyte adhesion deficiency.

Synonyms: Integrin beta-2, MFI7

Note: Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum.