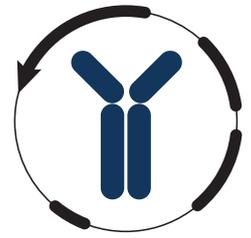


Datasheet



Mouse mAb to **CD18**
Clone **68-5A5**
Isotype **IgG2a-κ**

Source

A BALB/c mouse was immunized with stimulated human leucocytes.
Fusion partner: NS-1.

Specifications

It recognizes a transmembrane glycoprotein of 95 kDa, identified as CD18 or integrin-2 (Workshop III). It complexes non-covalently with either L, M, or X integrin (CD11a, b, or c) to form the heterodimers. LFA-1, MAC-1, and p150,95, respectively. LFA-1 is the receptor for three members of the Ig supergene family of proteins, ICAM-1 (CD54, ICCAM-2 (CD102), and Mac-1 and p150,95 bind to ICAM-1, fibrinogen, and IC3b. ICAM-3 (CD50). CD18/CD11 heterodimeric molecules are involved with cell/cell and cell/extracellular adhesion in immune and inflammatory responses. This Mab blocks these cellular interactions. 68-5A5 was clustered at the IIIrd International Workshop on human leucocyte differentiation antigens.

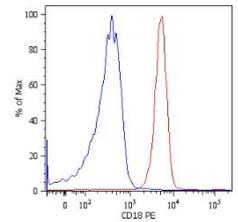


Figure 1: Human granulocytes stained for CD18 (FACS).

Species reactivity

Positive: human.

Applications

68-5A5 can be used for staining of frozen tissues, in flow cytometry and for blocking cell-cell interactions.

| Flow cytometry | Frozen sections | Functional studies | Immunofluorescence | Paraffin sections | Western blot |
|----------------|-----------------|--------------------|--------------------|-------------------|--------------|
| + | + | + | + | - | + |

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Functional studies (0,02-2,0 µg/ml without azide).
- Immunoblotting (1,0-2,0 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining formalin-fixed tissues has not been established to date).

Positive control

Human PBL and tonsil.

Datasheet



References

- McMichael A.J. et al., Leucocyte typing III, Oxford University Press, Oxford, (1987).