



Qty: 100 µg/200 µL

Mouse anti-CD18

For Research Use Only

Catalog No. 37-1300

Lot No.

Mouse anti-CD18

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: MEM-48

ISOTYPE: IgG₁

IMMUNOGEN

Leukocytes of a patient suffering from a LGL-type leukemia

SPECIFICITY

This antibody is specific for the 95 kDa beta chain, known as the CD18 antigen.

REACTIVITY

Reactivity has been confirmed with human CRL-2630 (non-reducing) cells.

Sample	Immuno-precipitation (native)	Western Blotting	Immunohisto-chemistry (FFPE)
Human	ND	+++	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunohistochemistry: 1:100 –1:200

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI371300

(Rev 10/08) DCC-08-1089

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BACKGROUND

The CD18 antigen is common to the three members of the CD11 protein family, LFA-1 (CD11a), Mac-1 (CD11b) and p150, 95 (CD11c). The three members of CD11 protein family have distinct alpha polypeptide chains but share an identical beta chain. Leukocyte adhesion receptors, including the beta-integrin (CD11/CD18) family, play an important role in inflammation via their regulatory effects on leukocyte adhesion, transmigration, and function. The CD18 antigen is expressed on virtually all normal peripheral blood leucocytes¹, but is absent on platelets. It is essential for many immune responses that require cell-to-cell contact, such as lymphocyte adhesion, natural killer (NK) and T-lymphocyte cytolysis, and T-lymphocyte proliferation.¹

REFERENCES

1. Dustin ML, *Nature* 341:619-624, 1989.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-CD44(H-CAM)	DF1485	13-5500
Mouse anti-CD44 Variants	MA54	33-6700
Mouse anti-CD54(ICAM-1)	My13	07-5403
Mouse anti-SCLC(CD56, N-CAM)	123C3	18-0152
Mouse anti-PECAM(CD31)	MEM-05	37-0700
Mouse anti-MUC18(M-CAM)	OJ79	35-7800
Rabbit anti-MUC18(M-CAM)	ZMD.218	34-6800
Mouse anti-CD51(Integrin α 5)	NK-1M9	07-5103
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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