

Monoclonal Antibody CD18

PN IM1567 – Purified – Freeze-dried – 0.2 mg – Clone 7E4

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

CD18 is the 95 kDa integrin β 2-chain which forms non-covalently-bound heterodimers with the integrin α subunits: CD11a, CD11b and CD11c (1, 2) (α L, α M and α X, respectively).

CD18 is expressed by all leucocytes, activated platelets and megakaryocytic cell lines.

7E4 is a blocking monoclonal antibody in cell adhesion assays (3, 4).

The 7E4 monoclonal antibody (mAb) stains lymphocytes, granulocytes and macrophages in tonsil, lymph nodes and liver. It is found in the small bowel with increased expression in inflamed tissues.

The 7E4 mAb has been assigned to the CD18 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan, in 1996 (5).

REAGENT

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Clone	7E4
Isotype	IgG1
Species	Mouse
Immunogen	Purified gp90-160 complex
Hybridoma	P3-X63-Ag.8-653 x Balb/c spleen cells
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD18 positive cells by flow cytometry.

STATEMENT OF WARNINGS

1. Specimens, samples and all material

coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing/thawing cycles.

PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

1. Price, T.H., Beatty, P.G., Corpuz, S.R., "In vivo inhibition of neutrophil function in

the rabbit using Mab to CD18". 1987, J. Immunol., 139, 4174-4177.

2. Kishimoto, T.K., O'Connor, K., Lee, A., Roberts, T.M., Springer, T.A., "Cloning of the β subunit of the leucocyte adhesion proteins, homology to an extracellular matrix receptor defines as novel supergene family", 1987, Cell, 48, 681-690.
3. Kishimoto, T.K., Hollander, N., Roberts, T.M., Anderson, D.C., Springer, T.A., "Heterogenous mutations in the β subunit common to the LFA-1, Mac-1 and p.150-95 glycoproteins cause leucocyte adhesion.deficiency" 1987, Cell, 50, 193-202.
4. Nortamo, P., Patarroyo M, Kantor, C., Suopanki, J., Gahmberg, C.G., "Immunological mapping of the human leucocyte adhesion glycoprotein gp90 (CD18) by monoclonal antibodies", 1988, Scand. J. Immunol, 28, 537-546.
5. Hogg, N, McDowall, A., "CD18 Workshop panel report", 1997, in Leucocyte Typing VI, Kishimoto, T., et al, Eds., 355-357.

PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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