

Monoclonal Antibody CD35

PN IM0195 – Purified – Freeze-dried – 0.2 mg – Clone J3D3

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

SPECIFICITY

The CD35 antigen is a polymorphic molecule. Different molecular weights: 160, 190, 220, 250 and 285 kDa were reported for the various allotypes. It is known as the complement receptor type I (CR1) with affinity for C3b, C4b and iC3b. The CD35 antigen is expressed by granulocytes (except basophils), B lymphocytes, monocytes, some NK cells and erythrocytes. The CD35 antigen mediates phagocytosis of complement coated particles.

J3D3 monoclonal antibody (mAb) inhibits CR1-mediated decay of preformed cell-bound alternative- and classical-pathway C3 convertase sites. It also inhibits C3b-dependent rosette formation with lymphocytes (1).

J3D3 reacts with B lymphocytes, monocytes, myeloid cells, dendritic cells of reactive follicles and renal podocytes. The J3D3 mAb has been assigned to the CD35 cluster of differentiation at the third International Workshop on Human Leucocyte Differentiation Antigens held in Oxford, UK, in 1986 (2).

REAGENT

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Clone	J3D3
Isotype	IgG1 κ , mouse
Immunogen	Purified C3b receptor from human red blood cells
Hybridoma Source	NS1 x Balb/c spleen cells Ascites fluid
Purification	Ion exchange or affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD35 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. Cook, J., Fisher, E., Boucheix, C., Mirsrahi, M., Jouvin, M.H., Weiss, L., Jack, R. & Kazatchkine, M., "Mouse monoclonal antibodies to the human C3b receptor", 1985, *Molec. Immunol.*, 22, 531-539.
2. Hogg, N., Horton, M.A., "CD35 New and previously defined clusters", 1987, *Leucocyte Typing III, White Cell Differentiation Antigens*, Mc Michael, A.J., et al., Eds., Oxford University Press, p 591.

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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Manufactured by:
Immunotech, a Beckman Coulter Company
130, avenue de Lattre de Tassigny, B.P. 177
13276 Marseille Cedex 9, France

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