

Monoclonal Antibody CD15

PN IM0165 – Purified – Freeze-dried – 0.2 mg – Clone 80H5

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

SPECIFICITY

The CD15 antigen (Lewis x / Lex) is the lacto-N-(neo) fucopentaose III molecule. This carbohydrate epitope is carried by both glycolipids and glycoproteins expressed on cell membrane. CD15 antigen is strongly expressed by neutrophils, eosinophils, monocytes and normal myeloid precursor cells. It is not expressed on normal erythrocytes, platelets or lymphocytes.

80H5 antibody recognizes an early myeloid differentiation epitope which is found on metamyelocytes, myelocytes and promyelocytes and activated macrophages.

80H5 reacts with granulocytes. Occasionally epithelioid histiocytes may be weakly stained. After neuraminidase treatment of paraffin sections, 80H5 reacts with Langerhans cells of the skin and interdigitating reticulum cells. Many epithelial cells (gastric glands, squamous cells and kidney tubules) are commonly positive.

The 80H5 monoclonal antibody has been assigned to the CD15 cluster of differentiation during the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA in 1993 (1).

REAGENT

Monoclonal Antibody CD15
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Clone 80H5
Isotype IgM, mouse
Immunogen Human granulocytes
Hybridoma MOPC.315-43 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 CD15 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. Ball, E.D., "CD15 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, p. 790-794.

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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