

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

SPECIFICITY

The molecular weight of the recognized antigen is 40-45 kDa.

CD37 is strongly expressed on the surface of human peripheral blood B cells and on B cells from the germinal center on lymph nodes.

In the ontogeny of the B cells, CD37 appears at a late stage, but it is not expressed on plasma cells.

A main feature of CD37 is its high content of carbohydrate (45%).

CD37 has a very low but significant reactivity with T cells, granulocytes, and monocytes.

Extensive immunohistochemical studies show a weak reactivity with other cellular types such as Langerhans cells, macrophages, endothelial cells, glial cells, and neurons from the central nervous system.

REAGENT

IOTest CD37-FITC Conjugated Antibody
PN IM0457 – 100 tests – Liquid - 0 µL / test.

Clone BL14
Isotype IgG1, Mouse
Immunogen Human B-cells lymphocytes
Hybridoma Myeloma SP2/o Ag. 1-4 x
Balb/c spleen cells

Source Ascites fluid
Purification Ion exchange or affinity
chromatography

Conjugation (FITC) Fluorescein
isothiocyanate

Molar Ratio FITC / Ig : 5 – 6.5

Fluorescence Excites at 486-509 nm
Emits at 504-541 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline pH 7.4, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Flow cytometry.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if they might transmit infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C in the dark. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

This reagent is designed for flow cytometry. A wash is required to yield optimal results
Assay volume: 20 µL per 5 x 10⁵ cells in one test, or per 100 µL whole blood.

SELECTED RESEARCH REFERENCES

1. Brochier, J., Magaud, J.P., & Cordier, G., 1983, J.Immunol. Methods, 58, M3.
2. Schwartz, R., Moldenhauer, G. & Dorken, B., 1987, Immunobiology Today, 8, 10, 308-315.
3. Gentilhomme, O., Berger, F., & Magaud, J.P., 1987, in Leucocyte Typing III White Cell Differentiation Antigens, 341-345.
4. Poncelet, P., Cantaloube, J.F., Delor, P., Duperray C., and Lafabre-Bertrand T. cells", Leucocytes Typing III 341-345.
5. This antibody was studied at the Human Leucocyte Workshop in Boston (1984).

TRADEMARKS AND PATENTS

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