

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

### SPECIFICITY

The molecular weight of the recognized antigen is 140 kDa.

The BL13 monoclonal antibody recognizes B lymphocytes located in the clear centers of the secondary lymphoid follicles of lymph nodes and tonsils.

It does not react with circulating B lymphocytes, T lymphocytes, monocytes and granulocytes.

MAB BL13 was clustered as CD21 during the 2<sup>nd</sup> HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Boston, US, in 1984 (Code WS: B35, Section B-cells/Leukaemia) (2).

It was studied during the 3<sup>rd</sup> HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Oxford, England, in 1986 (Section B-cells antigens) (3).

### REAGENT

IOTest CD21-FITC Conjugated Antibody  
PN IM0473 – 100 tests – 20 µL / test.

**Clone** BL13

**Isotype** IgG1, mouse

**Immunogen** Human B-CLL

lymphocytes

**Hybridoma** Myeloma SP2/o-Ag 1.4 x  
Balb/c spleen cells

**Source** Ascites fluid

**Purification** Affinity chromatography  
on Protein A

**Conjugation** fluorescein isothiocyanate  
(FITC) is conjugated at  
3 – 10 moles of FITC per  
mole of Ig.

Excitation wavelength: 488 nm

Maximum emission wavelength: 525 nm

Main emission color: Green

**Buffer** 2 mg/mL bovine serum albumin  
in phosphate-buffered saline  
containing 0.1% sodium azide.

### APPLICATION

Flow cytometry

### STATEMENT OF WARNINGS

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 capable of transmitting 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.

### STORAGE CONDITIONS AND STABILITY

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

### 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.

Assay volume: 20 µL per 5 x 10<sup>5</sup> cells in one test, or per 100 µL whole blood.

A wash is required to yield optimal results.

### SELECTED RESEARCH

#### REFERENCES

1. Brochier, J., Magaud, J.P., Cordier, G., "A monoclonal antibody reactive with non-circulating human B lymphocytes", 1983, J. Immunol. Methods, 58.
2. Nadler, L.M., "B cell/leukaemia panel workshop and comments", 1985, Leucocyte Typing II, White Cell Differentiation Antigens, Rheiherz, E.L., et al., Eds., Oxford University Press, 4-43.
3. Armitage, R.J., Rawle, R.C., O'Flynn, K., Beverley, P.C.L., "Functional role of B-cell surface antigens in growth and activation of leukaemic B cells", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael, A.J., et al., Eds., Oxford University Press, 451.

### PRODUCT AVAILABILITY

IOTest CD21-FITC Conjugated Antibody  
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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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