IOTest® CD5-APC-Alexa Fluor® 700

PN A78835 – 50 tests – Liquid – 10 µL/test* – Clone BL1a

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY

The CD5 antigen is a single-chain transmembrane glycoprotein with a molecular weight of 67 kDa (1, 2).
The CD5 molecule is expressed at the surface of mature T lymphocytes, by the majority of thymocytes and by a sub-population of B lymphocytes (1 – 3). Its expression is not found in granulocytes, monocytes and platelets (3).
The CD5 antigen is the ligand for the B-lymphocytes cell-surface protein CD72 (4).
The BL1a monoclonal antibody was assigned to CD5 during the 3rd HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Oxford, England, in 1986 (Code WS: 520, Section T) (1, 2).

REAGENT

IOTest CD5-APC-Alexa Fluor 700
Conjugated antibody
PN A78835 - 50 tests - Liquid - 10 µL/test*

Clone	BL1a
Isotype	IgG2a, Mouse
Immunogen	Lymphatic lymphocytes
Hybridoma	PP2/0 x spleen B cells
Source	Ascites fluid
Purification	Affinity chromatography
Conjugation	Allophycocyanin -Alexa Fluor 700 (APC-Alexa Fluor 700)
Molar Ratio	APC-Alexa Fluor 700 / Ig : 0.5 - 1.5
Fluorescence	Excites at 633 nm Emits at 720 nm

REAGENT CONTENTS

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

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 considered potentially infectious 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. 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.

PRECAUTIONS

Due to the tandem structure of the fluorochrome, APC-Alexa Fluor 700 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 700. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 700-conjugate.

SELECTED RESEARCH REFERENCES

1. Horejsi, V., Angelisova, P., "Comparatives biochemical studies on the Workshop CD5 and CD3 panel antibodies", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael A.J., et al., Eds., Oxford University Press, 197.
2. Disanto, J.P., Small, T.N., Dupont, B., Flomenberg, N., Knowles, R.W., "Analysis of human CD8 and CD5 antigens expressed on mouse L-lines", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael A.J., et al., Eds., Oxford University Press, 210-214.
3. Reiter, C., "Cluster report : CD5", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens. W. Knapp, et al., Eds., Oxford University Press, 331-332.
4. Van de Velde, H., von Hoegen, I., Luo, W., Parnes, J.R., Thielemans, K., "The B-cell surface protein CD72/Lyb-2 is the ligand for CD5", 1991, Nature, 351, 662-665.

TRADEMARKS

MANUFACTURED BY :

IMMUNOTECH SAS
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

Printed in France.
Made in France.

(*): 10 µL is the quantity of product sufficient to stain 5 x 10^5 cells in a standard immunofluorescence assay

A78835 2009-08-26
IG-720–ASR_AD