IOTest® CD5-APC

PN A60790 – 100 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 Conjugated Antibody
PN A60790 - 100 tests - Liquid - 10 µL/test*.

Clone	BL1a
Isotype	IgG2aK, Mouse
Immunogen	Human thoracic duct lymphocytes (TDL)
Hybridoma	SP2/0-Ag14 x Balb/c spleen cells
Source	Ascites
Purification	Ion exchange or affinity chromatography
Conjugation	Allophycocyanin (APC)
Molar Ratio	APC / Ig : 0.5 – 1.5
Fluorescence	Excites at 600 – 655 nm Emits at 650 – 680 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 0.2% 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 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.
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.

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

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www.beckmancoulter.com

Printed in France.
Made in France.

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