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

TRADEMARKS
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