IOTest® CD127-PC7
PN A64618 - 100 tests - Liquid - 10 µL/test* - Clone R34.34

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

SPECIFICITY
CD127 is the α chain of the IL-7 receptor (IL-7Rα). It is a 75 – 80 kDa transmembrane molecule which associates at least with CD132 (IL-2Rγ chain) to form the high-affinity IL-7R (1). CD127 binds the IL-7 which is essential for the development and survival of T lymphocytes (2). The R34.34 monoclonal antibody (mAb) reacts with normal B cell precursors (BCP) but not with mature B cells. It also reacts with T lymphocytes, with a subpopulation of monocytes from peripheral blood and with a subset of CD34+ cells (3). MAb R34.34 was assigned to the CD127 cluster of differentiation at the 6th HLDA Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (1).

REAGENT
IOTest CD127-PC7 Conjugated Antibody
PN A64618 - 100 tests - Liquid - 10 µL/test*

Clone R34.34
Isotype IgG1, Mouse
Immunogen Pre-Alp, pre-B leukemic cell line with a t(1;19) translocation
Hybridoma NS1 x Balb/c
Source Ascites fluid
Purification Ion exchange or affinity chromatography
Conjugation Phycoerythrin-Cyanin 7 (PC7)
Molar Ratio PC7 / Ig : 0.5 - 1.5
Fluorescence Excites at 486-580 nm
Emits at 710-800 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 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.

PRECAUTIONS
Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multicolor analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

SELECTED RESEARCH REFERENCES
3. Pandrau-Garcia,D., de Saint-Vis, B., Saeland, S., Renard, N., Ho, S., Moreau, I., Banchereau, J., Galizzi, J-P., "Growth inhibitory and agonistic signals of Interleukin-7 (IL-7) can be mediated through the CDw127 IL-7 receptor", 1994, Blood, 83, 3613-3619.

TRADEMARKS
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