IOTest® CD127-PC5

PN A64617 - 100 tests - Liquid - 10 µL/test* - Clone R34.34

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

SPECIFICITY

CD127 is the αchain 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-PC5 Conjugated Antibody
PN A64617 - 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	R Phycoerythrin-Cyanin 5.1 (PC5)
Molar Ratio	PC5 / Ig : 0.5 - 1.5
Fluorescence	Excites at 486-580 nm Emits at 660-680 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, PC5 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC5. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC5-conjugate.

SELECTED RESEARCH REFERENCES

1. Higuchi, M. Sugamura, K., "CD127 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al., Eds., Garland Publishing, Inc., 838-840.
2. Jiang, Q., Li, WQ., Aiello, FB., Mazzucchelli, R., Asefa, B., Khaled, AR., Durum, SK., “Cell biology of IL-7, a key lymphotrophin”, 2005, Cytokine Growth Factor Rev., 16, 513-533.
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 AND PATENT

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 5×10^5 cells in a standard immunofluorescence assay