

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD127 is the α chain of the IL-7 receptor (IL-7R α). It is a 75 – 80 kDa transmembrane molecule which associates at least with CD132 (IL-2R γ 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).

The R34.34 mAb was assigned to the CD127 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (1).

REAGENT

IOTest CD127-PE Conjugated Antibody
PN IM1980U – 2 mL Liquid – 20 µL / test*.

| | |
|-------------------------|---|
| Clone | R34.34 |
| Isotype | IgG1, mouse |
| Immunogen | Pre-Alp, pre-B leukemic cell line with a t(1;19) translocation |
| Hybridoma Source | NS1 x Balb/c Ascites fluid |
| Purification | Ion exchange or affinity chromatography |
| Conjugation | R-phycoerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig. |
| Fluorescence | PE (orange-red) Excites at 486–580 nm Emits at 568 – 590 nm |

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS

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. Do not use antibody beyond the expiration date on the label.
3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
5. Minimize exposure of reagent to 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. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this PE-labeled reagent (clear colorless to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation 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. 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., Banchemare, 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.

PRODUCT AVAILABILITY

IOTest CD127-PE Conjugated Antibody
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PE is licensed under patent 4,520,110.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

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(*) : 20 µL is the quantity of product sufficient to stain
5 x 10⁵ cells in a standard immunofluorescence assay