

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The human CD90 antigen (also known as Thy-1) is the smallest (18 kDa) member of the immunoglobulin gene superfamily (IgSF). It is a highly glycosylated glycosylphosphatidylinositol (GPI) anchored molecule consisting of a single IgSF V-set domain (1). The CD90 molecule has a broad tissue distribution and is expressed in nervous tissue, connective tissue and various stromal cell lines (1). It characterizes a rare subset of human fetal bone marrow cells, that contains multipotent hematopoietic progenitor activity (2, 3).

This antigen is expressed on a subset of CD34 positive cells from human bone marrow, cord blood or fetal liver (1, 3, 4). It is also expressed on very small subset of thymocytes and peripheral T-lymphocytes (4).

REAGENT

IOTest CD90-PE Conjugated Antibody
PN IM3600U – 2 mL Liquid – 20 µL / test*.

Clone	Thy-1/310
Isotype	IgG1, mouse
Immunogen	WEHI-231 cell line
Hybridoma	P3 X63-Ag8.653 x Balb/c
Source	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. PE (orange-red)
Fluorescence	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. Lansdorp, P.M., "CDw90 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation

Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 967-968.

2. Baum, C.M., Wessman, I.L., Tsukamoto, A.S., Buckle, A-M., Peault, B., "Isolation of a candidate human hematopoietic stem-cell population", 1992, Proc. Natl. Acad. Sci. USA, 89, 2804-2808.
3. Craig, W., Kay, R., Cutler, R.L., Lansdorp, P.M., "Expression of Thy-1 on human hematopoietic progenitor cells", 1993, J. Exp. Med., 177, 1331-1342.
4. Clark, R.A., Springer, T.A., "CD90 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al, Eds., Garland Publishing, Inc., 425-427.

PRODUCT AVAILABILITY

IOTest CD90-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.

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(*) : 20 µL is the quantity of product sufficient to stain

5 x 10⁵ cells in a standard immunofluorescence assay