

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 glycosyl-phosphatidylinositol (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).

The F15-42-1-5 monoclonal antibody (mAb) has been assigned to the CDw90 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens (HLDA) in Boston, U.S.A., in 1993 (WS Code: T141) (1). Its assignment was confirmed to the CD90 cluster of differentiation at the 6th International HLDA Workshop, in Kobe, Japan, in 1996 (WS code: A011 Section AS) (4).

REAGENT

IOTest CD90-FITC Conjugated Antibody
PN IM1839U – 2 mL Liquid – 20 µL / test*.

Clone	F15-42-1-5
Isotype	IgG1, mouse
Immunogen	Purified Thy-1 antigen from human brain
Hybridoma Source	P3-NS1/1ag4.1 x Balb/c Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 15 – 25 moles of FITC per mole of Ig.

Fluorescence FITC (Green)
Excites at 468 – 509 nm
Emits at 504 – 541 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 FITC-labeled reagent (clear, colorless to yellowish-green 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-FITC Conjugated Antibody
PN IM1839U – 2 mL Liquid – 20 µL / test*.

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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Manufactured by:
Immunotech, a Beckman Coulter Company
130, avenue de Lattre de Tassigny, B.P. 177
13276 Marseille Cedex 9, France

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

