

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD71 molecule, known as the transferrin receptor or T9 antigen, is a homodimeric transmembrane glyco-protein of 190 kDa (1). CD71 is involved in iron uptake by binding transferrin (2). It is expressed by reticulocytes, erythroid precursors and capillary endothelial cells in brain (2, 3). All other known cell types express CD71 only when entering in proliferation (1).

The YDJ1.2.2 monoclonal antibody has been assigned to the CD71 at the 5th HLDA Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (WS Code: A006, Section AA6) (1).

REAGENT

IOTest CD71-PE Conjugated Antibody
PN IM2001U – 2 mL Liquid – 20 µL / test*.

Clone YDJ1.2.2

Isotype IgG1, mouse

Immunogen MLA 144 (Gibbon leukemic cell line)

Hybridoma Source X63-Ag8.653 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. Trowbridge, I.S., "Overview of CD71", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1139-1141.
2. Goding, J.W., Dubljevic, V., Sali, A., "CD71 workshop panel report", 1996, Leucocyte typing VI, White Cell Differentiation Antigens, Kishimoto, T., et al., Eds., Garland Publishing, Inc., 524-527.
3. Taetle, R., "The role of transferrin receptors in hemopoietic cell growth", 1990, Exp. Hematol., 18, 360-365.

PRODUCT AVAILABILITY

IOTest CD71-PE Conjugated Antibody
PN IM2001U – 2 mL Liquid – 20 µL / test*.

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