

IOTest CD71-APC-Alexa Fluor 700

PN A97051 – 0.5 mL – Liquid – 10 µL/test – Clone YDJ1.2.2

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-APC-Alexa Fluor 700
Conjugated antibody
PN A97051 - 0.5 mL - Liquid - 10 µL/test

Clone YDJ1.2.2
Isotype IgG1, Mouse
Immunogen MLA 144
(Gibbon leukaemic cell line)
Hybridoma X63 x balb/c
Source Ascites fluid or supernatant
of in vitro cultured
hybridoma cells.
Purification Affinity chromatography
Conjugation Allophycocyanin-Alexa Fluor 700
(APC-Alexa Fluor 700)
Molar Ratio APC-Alexa Fluor 700 /
Ig : 0.5 - 1.5
Fluorescence Excites at 633/638 nm
Emits at 720 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 considered potentially infectious and disposed of with proper precautions.
3. Never pipet with 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 AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. 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, APC-Alexa Fluor 700 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 700. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 700-conjugate.

Weak non-specific binding on a lymphocyte subpopulation may occur on some donors with APC-Alexa Fluor 700 conjugates.

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.

TRADEMARKS

Beckman Coulter logo and IOTest are trademarks of Beckman Coulter; Beckman Coulter logo, IOTest are registered in the USPTO and SIPO.

Alexa Fluor is a trademark of Molecular Probes, Inc.

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.

©2012 Beckman Coulter, Inc.