

MONOCLONAL ANTIBODY CD71

Cat. No.	Form	Quantity	Presentation
0482	Purified	100 tests	Liquid 2 mL
0483	FITC	100 tests	Liquid 2 mL
2001	PE	100 tests	Liquid 2 mL
2117	Purified	0.2 mg	Freeze-dried

Clone YDJ.1.2.2.

Isotype IgG1 (mouse)

Immunogen MLA 144 (Gibbon leukemic cell line)

Hybridoma Myeloma X63 Ag 8 653 x spleen cells

Specificity CD71 antigen is known as the transferrin receptor, which has been structurally characterized as a disulphide-bound dimer of identical glycoprotein subunits of 95 kDa

This antigen is not present on resting peripheral blood lymphocytes, but appears after mitogenic stimulation on B and T cells. Erythroblasts express high levels of CD71. It is also present on macrophages. It is expressed by some T- and B-cell lines.

CD71 expression is linked to cell proliferation and intracellular iron concentration (1).

YDJ 1.2.2 has been studied at the Vth International Workshop on Human Leukocyte Differentiation Antigens in Boston (1993)

Applications Study of the eventual implication of the transferrin-receptor system in tumorigenesis.

Study of relationship between ligand and transferrin receptor

Study of endocytosis and different biological events triggered by transferrin receptor binding.

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MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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Buffer Liquid forms 2 mg/mL bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Freeze-dried form 1 mg/mL bovine serum albumin in phosphate buffered saline

Reconstitution and storage

The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquoting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

The purified liquid form should be stored at 2 - 8°C until the expiration date stated on the vial label.

The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C until the expiration date stated on the vial label.

Recommended Procedures

Fluorescent microscopy or flow cytometry

Liquid form: 20 μ L/ 5×10^5 cells/test or 100 μ L whole blood

Freeze-dried form: 2 μ g/ 5×10^5 cells/test

Immunohistochemistry:

Working dilution: 1:25

This antibody is only suitable on frozen sections and on cell smears

References

1) Trowbridge, I.S., "Overview of CD71", 1995, in Leucocyte Typing V, Schlossman, S.F., et al, Eds., Oxford University Press, p. 1139-1141

2) Taetle, R., "The role of transferrin receptors in hemopoietic cell growth", 1990, Exp Hematol., **18**, 360-365.

3) Mooney, M.L., Carlson, P., Hastillo, A., Szentpetery, S., Duma, R.J., and Markowitz, S.M., "Transferrin receptors and CD4/CD8 lymphocyte ratios in rejection and infection in cardiac transplantation recipients", 1990, Transplantation Proceedings, **22**, (5), 2389-2393