

MONOCLONAL ANTIBODY CD122

Cat. No.	Form	Quantity	Presentation
1435	Purified	0.2 mg	Freeze-dried
1978	PE	100 tests	Liquid 2 ml

Clone CF1

Isotype IgG1 (mouse)

Immunogen Murine thymoma transfected with human IL-2 R β /p75.

Hybridoma Myeloma Sp2/0 X AKR spleen cells

Specificity The high affinity IL-2 receptor is a multicomplex molecule consisting of α -, β - and γ -subunits (1).
 CF1 reacts with an external epitope of the human IL-2R β chain/p75 (2).
 It is a non-blocking antibody since it does not inhibit IL-2 binding (3).
 This CF1 antibody has been assigned to the CD122 cluster of differentiation at the Vth International Workshop on Human Leukocyte Differentiation Antigens in Boston, 1993 (4).

Applications Detection of p75 expressing cells by flow cytometry.
 Immunoprecipitation.

Buffer Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.
 Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Reconstitution and Storage The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 0.8 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting 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 conjugated forms should not be frozen and should be stored in the dark at 2-8°C.

Recommended Procedures Flow cytometry:
 Freeze-dried form: 2 μ g/5x10⁵ cells/test or 100 μ l whole blood.
 Liquid form: 20 μ l/5x10⁵ cells/test or 100 μ l whole blood

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Direct labelling using conjugated liquid forms (Cat. No. 1978)

1. Pipet 100 µl of specimen collected with EDTA into two tubes (1 test tube, 1 control tube)
2. To the test tube add 20 µl of the conjugated CD122 antibody. To the control tube add 20 µl of appropriate conjugated isotypic control. Vortex test and control tubes.
3. Incubate for 15 min. at room temperature (18-25°C) in the dark.
4. Proceed as usual for lysis of red blood cells and fixing of white cells.

References

- 1) Waldmann, T.A., "The multi-subunit interleukin-2 receptor", 1989, Annu. Rev. Biochem., **58**, 875-911.
- 2) François, C., Sorel, M., Cherel, M., Brailly, H., Minvielle, S., Blanchard, D., Jacques, Y., "Immunological characterization of antigenic domains on human IL-2 receptor beta subunit: epitope-function relationships", 1995, Int. Immunol., **7** (8), 1173-1181.
- 3) Tanaka, T., Kitamura, F., Suwa, H., Miyasaka, M., "Characterization of anti-IL-2Rβ mAb and definition of three epitopes on the IL-2Rβ molecule", 1995. In Leucocyte Typing V, Schlossman S.F. et al., Eds., Oxford University Press, pp 1905-1907.
- 4) Kikutani, H., Kishimoto, T., "The cytokine receptors: section report", 1995. In Leucocyte Typing V, Schlossman S.F. et al., Eds., Oxford University Press, pp 1855-1864.