

MONOCLONAL ANTIBODY CD126

Cat. No.	Form	Quantity	Presentation
1434	Purified	0.2 mg	Freeze-dried
1979	PE	100 tests	Liquid 2 ml

**Clone** M91

**Isotype** IgG1 (mouse)

**Immunogen** Human myeloma cell lines + recombinant soluble IL6-R  $\alpha$ chain (amino-acids 1-358).

**Hybridoma** Sp2/0 x Balb/c.

**Specificity**  
 In peripheral blood the IL-6R $\alpha$  is detectable on monocytes, granulocytes, CD4<sup>+</sup> T lymphocytes, and at a lower level on CD8<sup>+</sup> T lymphocytes. IL-6R $\alpha$  is not found on CD19<sup>+</sup> B lymphocytes and CD56<sup>+</sup> NK cells (1)  
 M91 recognizes both membrane form (gp80) and soluble forms (serum and urine sIL-6R, Mw 55 kDa) of IL-6R $\alpha$  (2).  
 This is a non-blocking antibody. It binds to IL-6/IL-6R complexes and IL-6/IL-6R/gp130 complexes (3,4).  
 This M91 antibody has been assigned to the CD126 cluster of differentiation at the Vth International Workshop on Human Leukocyte Differentiation Antigens in Boston, 1993, (5).

**Applications**  
 Cytometry detection of IL-6R positive cells.  
 Immunoprecipitation of IL-6/IL-6R, IL-6/sIL-6R and IL-6/IL-6R/gp130 complexes.  
 Does not work in Western blot.

**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 0.5 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 conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.

March 18, 1996

MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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**Recommended  
Procedures**

Flow cytometry:

Freeze-dried form: 2 µg/5x10<sup>5</sup> cells/test or 100 µl whole blood

Liquid form: 20 µl/5x10<sup>5</sup> cells/test or 100 µl whole blood.

Direct labelling using conjugated liquid forms (Cat. No. 1979)

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 CD126 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) Wagnum, A.W., van Gils, F.C.J.M., Wagemaker, G., "Flow cytometric detection of receptors for Interleukin-6 on bone marrow and peripheral blood cells of humans and rhesus monkeys", 1993, Blood, **81**, 2036-2043.
- 2) Montero-Julian, F-A., Liautard, J., Flavetta, S., Romagné, F., Gaillard, J.P., Brochier, J., Klein, B., Brailly, H., "Immunoassay for functional human soluble Interleukin-6 Receptor in plasma based on ligand/receptor interactions", 1994, J. Immunol. Methods, **169**, 111-121
- 3) Liautard J., Gaillard, J.P., Mani, J.C., Montero-Julian, F., Duperray, C., Lu, Z.Y., Jourdan, M., Klein, B., Brailly, H., Brochier, J., "Epitope analysis of human IL-6 receptor gp80 molecule with monoclonal antibodies", 1994, Eur. Cytokine Netw., **5** (3), 293-300.
- 4) Brailly, H., Yasukawa, K., Montero-Julian, F A., Nakano, K., Klein, B., "Soluble IL-6Rβ/gp130 is present at high concentrations in normal serum as a dimer that binds efficiently to IL-6Rα complexes", 1995, in Leucocyte Typing V, Schlossman, S. et al., Eds., Oxford University Press, pp 1901-1905.
- 5) 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.