

MONOCLONAL ANTIBODY CD64

Cat. No.	Form	Quantity	Presentation
1604	FITC	100 Tests	Liquid 2 ml

- Clone** 22
- Isotype** IgG1 (mouse)
- Immunogen** Human monocytes
- Hybridoma** P3/NS/1-Ag4-1xmouse spleen cells
- Specificity** The molecular weight of the recognized antigen is 72 kDa.
The antibody reacts with Fc γ R1 which is the high affinity receptor for IgG on human monocytes, macrophages and IFN γ stimulated human polymorphonuclear leukocytes
- 22 binds to Fc γ R1 at an epitope distinct from the IgG ligand binding site. Thus its reaction with Fc γ R1 is not blocked by human IgG or immune complexes
- Applications** Flow cytometry or fluorescent microscopy
Studies of Fc γ R1 expression on human myeloid cells and myeloid cell lines.
Determination of the biological activity of IFN γ .
Studies of Fc γ R1 structure and biological activity
- Buffer** 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.
- Reconstitution and Storage** The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.
- Recommended Procedures** Fluorescent microscopy or flow cytometry:
20 μ l/5x10⁵ cells/test or 100 μ l whole blood
- References** 1) Guyre, PM., Graziano, RF, Vance, BA., Morganelli, PM., Fanger, MW, "Monoclonal antibodies define two epitopes which trigger human Fc γ R1 function", 1989, J Immunol., **143**: 1650-1655

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IMMUNOTECH
A COULTER COMPANY

BP 177 - 13276 Marseille Cedex 9 - France
Tel (33) 4 91 17 27 00 - Fax (33) 4 91 41 43 58

2) Vance, BA , Karison, KH , Morganelli, PM , Guyre, PM , "Single-step screening of mAb against gamma-interferon-induced surface molecules on human monocytes ", 1989, J Immunol Methods, **118**: 287-296

3) Fanger, MW., Shen, L., Graziano, RF., Guyre, PM., "Cytotoxicity mediated by human Fc receptors for IgG ", 1989, Immunol Today, **10**:92-99.