

## CD14, Monocyte, Macrophage marker, clone MEM-18 Monoclonal Antibody

**Catalog No.:** MON1108

**Quantity:** 100 µg

### Specificity

MEM-18 is a well characterized antibody that reacts with the human monocyte marker CD14, aa 53 kDa glycoprotein. The CD14 molecule has been reported to be involved in the endotoxin mediated release of Tumor Necrosis Factor  $\alpha$  by monocytic cells (see S.D. Wright et al.). MEM-18 inhibits the endotoxin induced release of TNF by monocytes because it blocks the binding of LPS-LBP to monocytes. CD14 is present on most monocytic and macrophage like cell types: monocytes, macrophages, Kupffer cells, pleural phagocytic cells and dendritic reticular cells. CD14 is present in low density on subpopulation granulocytes and activated or transformed B-cells. The antibody reacts with both soluble and monocyte surface CD14.

### Immunoglobulin type

murine IgG<sub>1</sub>

### Use

The antibody is useful for the detection of CD14 positive cells and CD14 inhibition studies. It is also useful for the detection of soluble CD14 antigen in serum and urine.

### Instructions for use

This antibody is useful for immunofluorescence microscopy and for immunoblotting. For immunofluorescence cells can be fixed with formaldehyde or glutaraldehyde. For *in vitro* studies care should be taken to remove azide by dialysis. Depending on the technique to be used a working dilution has to be tested beforehand; a dilution of about 1:10 is advised.

### Presentation

1 ml PBS-diluted ascites with 0.1% sodium azide. Sufficient for staining of 100 cells preparations for immunofluorescence.

### Literature

- Bazil, V., et al., 1986, Eur. J. Immunol. 16, 1583.
- Horejsi, V., et al., 1988, Folia Biol. 34, 23-33.
- Bazil, V., et al., 1989, Mol. Immunol. 26, 657-662.
- Wright, S.D., et al., 1990, Science 249, 1431.
- Leucocyte Typing IV, ed. A. J. McMichael et al., Oxford Univ. Press, Oxford 1987; Work shop nr 253. See also contributions: M1.1 to M1.3, M1.6, M2.1, M2.2, M2.5, and M4.5 others.
- Knapp W., et al., 1989, Leukocyte Typing IV, Oxford Univ. Press 1987, See also contributions: M1.6, M3.2, M3.3, M15.1.
- Bazil, V., and, Strominger J.L., 1991, J. Immunol. 147, 1567-1574.
- Stefanová, I., et al., 1991, Science 254, 1016-1016.
- Beekhuizen, H., et al., 1991, J. Immunol. 147, 3761-3767.
- Dentener, M.A., et al., 1993, J. Immunol. 150, 2885-2891.

**Caution:** Not for human use. For research only. Not for diagnostic or therapeutic use.



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