



Mouse Anti Human CD14 FITC

PRODUCT INFORMATION

CLONE: HI221
ISOTYPE: Mouse IgM
WS.No.: VI MA52
CATALOG#: A6282/A6292
CONTENTS: FITC conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05% NaN₃ and 1% BSA.

DESCRIPTION

CD14 McAb recognizes a 53-55KD glycosylphosphatidy-inositol (GPI)-anchored single chain glycoprotein, which is found on cells of myelomonocytic lineage including monocytes (strongly), granulocytes (weakly) and also on most tissue macrophages. CD14 antigen is also present on reticular dendritic cells, some langerhans cells, and B lymphocytes (weakly), but is absent from T lymphocytes, NK cells, erythrocytes and platelets. CD14 functions as a high affinity receptor for the complex of lipopolysaccharide (LPS-endotoxin) and LPS-binding protein (LBP), and is the major receptor involved in the lethal response to both endotoxin and Gram-negative bacteria. In addition to membrane CD14, soluble form of CD14 can be detected in serum and tissue culture supernatants of cells transfected with CD14.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC under optimum conditions.

USAGE

The FITC conjugation is tested for flow cytometric analysis using 20 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

Store at 4 $^{\circ}$ C, should not be frozen and avoid prolonged exposure to light.

REFERENCES

Tadamitsu. K., K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing VI: White Cell Differentiation Antigens. P: 940, 963-968 Garland Publishing, Inc., New York.

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