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Anti-CD14, clone biG 13, Monoclonal Antibody to Human and Bovine Monocytes

Catalog No: CMC001 **Size:** 100 µg in PBS without NaN_3 , lyophilized

Clone: biG 13

Category: Protein G purified

Immunoglobin Class Mouse IgG_1

Antigen: Monocytes of different species and immunoaffinity purified soluble human CD14

Special note: biG 13 represents an excellent marker for CD14.

CD14 is the 53-kD glycophosphatidylinositol (GPI)-linked glycoprotein and functions as high affinity endotoxin (LPS) receptor on the surface of monocytes, macrophages and granulocytes. The CD14 glycoprotein, gp 55, is present on most monocytic and macrophage-like cell types: monocytes, macrophages, Kupffer cells, pleural phagocytic cells and dendritic reticular cells. CD14 is also observed on granulocytes and activated or tranformed B-cells. Furthermore, CD14 is present in a soluble form in human serum, urine and other body fluids which are directly secreted or derived from protease-dependent shedding of the membrane bound molecule. The CD14 molecule has been reported to be a receptor for endotoxin. Soluble CD14 (sCD14) competes with membrane bound CD14 (mCD14) for LPS binding and is able to neutralize LPS-induced responses *in vitro* and *in vivo* and mediates the LPS-induced activation of non-CD14-expressing endothelial, epithelial and smooth muscle cells.

Characteristics: 20 µg/ml inhibits binding of 0.5 µg/ml LPS to CD14, binding epitopes amino acid 9-13, 39-44,

cross-reacts with CD14 of cattle++, swine++, dog+horse+.

Binding titer at human CD14 transfected CHO-cells more than 1:10,000.

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Applications:	Suitable for immunostaining of CD14 positive cells, FACS analysis, immunoprecipitation, flow cytometry, ELISA, CD14 inhibition studies and Western blotting.
Storage:	Store at -20°C
IgG content:	1 mg/ml
Reconstitution:	For reconstitution, add 100 µl water to get concentration of 1 mg/ml in PBS.
CD14 binding titer (FACS)	At $CD14^{+}$CHO cells: 1:5,000.
Reference:	F. Stelter et al. Eur. J. Biochem 243, 100-109, 1997.

Caution: **Not for human use**. For research use only.

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