

Anti-human CD14, clone biG 10 Monoclonal Antibody

Catalog No:	CMC000	Size: 100 µg
Concentration:	100 µg/100 µl PBS without NaN ₃ before lyophilization	
Clone:	biG 10	
Category:	Mouse monoclonal antibody protein G purified (lyophilized).	
Immunoglobulin Class:	IgG ₁	
Reconstitution:	Reconstitute with 100 µl d.d. water	
Antigen:	Monocytes and immunoaffinity purified soluble CD14	
Special note:	biG 10 represent an excellent marker for CD14.	

CD14 is the 53-kD glycoposphatidylinositol (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 transformed B-cells. The CD14 molecule has been reported to be a receptor for endotoxin. 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. 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.



cellsciences.com

Characteristics: Inhibits binding of LPS to CD14, binding epitope: amino acid 9-13, 39-44, and total inhibition of LPS-binding to CD14: 100 µg/ml.

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

Applications: Suitable for immunostaining of CD14 positive cells, FACS analysis, immunoprecipitation, flow cytometry, ELISA, CD14 inhibition studies and Western blotting.

Storage: Store at 4°C. Long term storage -20°C. Avoid repeated freeze-thaw cycles.

IgG content: 1 mg/ml

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



Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com