

Datasheet

CD14 monoclonal antibody, clone biG 2 (RoMo-1)

Catalog Number: MAB5656

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD14.

Clone Name: biG 2 (RoMo-1)

Immunogen: Native from human monocytes.

Host: Mouse

Reactivity: Human

Applications: ELISA, Flow Cyt, IP
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Specificity: biG 2 (RoMo-1) represents an excellent marker for CD14. CD14 has been shown to be involved in the LPS-induced cell activation. This antigen is present as a membrane bound form and as soluble antigen, both involved in cell stimulation by LPS. The plasma protein LBP plays an important role in this LPS-CD14 mediated cell activation. Monocytes and PMN are activated by the LBP-LPS complex via membrane CD14. The CD14 glycoprotein, gp 55, is present on most monocytic and macrophages 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. Furthermore CD14 is present in a soluble form in human serum, urine and other body fluids. The CD14 molecule has been reported to be a receptor for Endotoxin.

Form: Lyophilized

Isotype: IgG2a

Recommend Usage: Flow Cytometry (1:5000)

The optimal working dilution should be determined by the end user.

Storage Buffer: Lyophilized from PBS

Storage Instruction: Store at -20°C on dry atmosphere. After reconstitution with deionized water, store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 929

Gene Symbol: CD14

Gene Alias: -

Gene Summary: CD14 is a surface protein preferentially expressed on monocytes/macrophages. It binds lipopolysaccharide binding protein and recently has been shown to bind apoptotic cells. Alternative splicing results in multiple transcript variants encoding the same isoform. [provided by RefSeq]

References:

1. LPS-binding protein and CD14-dependent attachment of hepatitis B surface antigen to monocytes is determined by the phospholipid moiety of the particles. Vanlandschoot P, Van Houtte F, Roobrouck A, Farhoudi A, Stelter F, Peterson DL, Gomez-Gutierrez J, Gavilanes F, Leroux-Roels G. J Gen Virol. 2002 Sep;83(Pt 9):2279-89.
2. Binding of bacterial peptidoglycan to CD14. Dziarski R, Tapping RI, Tobias PS. J Biol Chem. 1998 Apr 10;273(15):8680-90.