

Datasheet

CD14 monoclonal antibody, clone MEM-18 (FITC)

Catalog Number: MAB4617

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD14.

Clone Name: MEM-18

Immunogen: Native purified human CD14.

Host: Mouse

Theoretical MW (kDa): 53-55

Reactivity: Human, Non-Human Primates

Applications: Flow Cyt

(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: This antibody reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages. In human, the epitope recognized by this antibody is located between amino acids 57-64.

Form: Liquid

Conjugation: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)

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

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4 °C. Do not freeze.

Avoid prolonged exposure to light.

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. The CD14 region spanning amino acids 57-64 is critical for interaction with the extracellular Toll-like receptor 2 domain. Iwaki D, Nishitani C, Mitsuzawa H, Hyakushima N, Sano H, Kuroki Y. *Biochem Biophys Res Commun.* 2005 Mar 4;328(1):173-6.
2. Structural relationship between the soluble and membrane-bound forms of human monocyte surface glycoprotein CD14. Bazil V, Baudys M, Hilgert I, Stefanova I, Low MG, Zbrozek J, Horejsi V. *Mol Immunol.* 1989 Jul;26(7):657-62.
3. Biochemical characterization of a soluble form of the 53-kDa monocyte surface antigen. Bazil V, Horejsi V, Baudys M, Kristofova H, Strominger JL, Kostka W, Hilgert I. *Eur J Immunol.* 1986 Dec;16(12):1583-9.