

## Datasheet

### CD14 monoclonal antibody, clone MEM-15 (FITC)

**Catalog Number:** MAB5063

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native CD14.

**Clone Name:** MEM-15

**Immunogen:** Native purified human CD14.

**Host:** Mouse

**Theoretical MW (kDa):** 53-55

**Reactivity:** 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. This antibody also reacts with soluble forms of CD14 found in serum and in the urine of some nephrotic patients.

**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. Soluble CD14 discriminates slight structural differences between lipid as that lead to distinct host cell activation. Asai Y, Makimura Y, Kawabata A, Ogawa T. J Immunol. 2007 Dec 1;179(11):7674-83.
2. Soluble CD14: role in atopic disease and recurrent infections, including otitis media. Lodrup Carlsen KC, Granum B. Curr Allergy Asthma Rep. 2007 Nov;7(6):436-43.
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.