**Overview**

**Product name**  
Anti-CD14 antibody [MEM-15] (FITC)

**Description**  
Mouse monoclonal [MEM-15] to CD14 (FITC)

**Host species**  
Mouse

**Conjugation**  
FITC. Ex: 493nm, Em: 528nm

**Specificity**  
Ab28061 recognises CD14 expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages. Ab28061 also recognises soluble forms of CD14 found in serum and in the urine of some nephrotic patients.

**Tested applications**  
Suitable for: ICC/IF, Flow Cyt

**Species reactivity**  
Reacts with: Human

**Immunogen**  
Full length native protein (purified): A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria.

**General notes**  
The antibody is free of unconjugated FITC.

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C.

**Storage buffer**  
Preservative: 0.097% Sodium azide  
Constituent: 0.2% BSA  
High grade protease free BSA

**Purity**  
Protein A purified

**Clonality**  
Monoclonal

**Clone number**  
MEM-15

**Isotype**  
IgG1

**Applications**

Our Abpromise guarantee covers the use of ab28061 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

Tissue specificity
Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

Sequence similarities
Contains 11 LRR (leucine-rich) repeats.

Post-translational modifications
N- and O-glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

Cellular localization
Cell membrane.

Flow Cytometry - Anti-CD14 antibody [MEM-15] (FITC) (ab28061)

Flow cytometry analysis of human peripheral blood cells labelling CD14 with ab28061.
Immunocytochemistry/Immunofluorescence - Anti-CD14 antibody [MEM-15] (FITC) (ab28061)
This image is courtesy of an anonymous Abreview.

ab28061 staining CD14 in human peripheral blood monocytes by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 2% paraformaldehyde for 20 minutes at room temperature and blocked with 2% goat serum for 15 minutes at 25°C. Samples were incubated with the undiluted primary antibody for 45 minutes at 25°C.

Flow Cytometry - Anti-CD14 antibody [MEM-15] (FITC) (ab28061)
This image is courtesy of an anonymous Abreview.

ab28061 staining CD14 in peripheral blood mononuclear cells by flow cytometry. The fibroblasts were prepared using 10 μL FITC antiCD14 to 50 μL (~100,000) cells in PBS/5%FCS and incubated on ice for 45 min. Cells were gated on viable cells.

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