

## Product datasheet for **SM3009APC**

### CD14 Mouse Monoclonal Antibody [Clone ID: MEM-18]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-18
Applications:	FC, WB
Recommended Dilution:	Suitable for <b>Flow Cytometry analysis</b> of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria
Specificity:	The antibody MEM-18 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 MEM-18 is located between amino acids 57-64.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: APC State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store the antibody in the dark at 2-8°C. <b>Do Not freeze!</b> Avoid prolonged exposure to light.
Stability:	Shelf life: One year from despatch.
Gene Name:	CD14 molecule
Database Link:	<a href="#">Entrez Gene 929 Human P08571</a>



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**Background:**

CD14 is a 55 kDa GPI-anchored glycoprotein, constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils, where serves as a multifunctional lipopolysaccharide receptor; it is also released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. CD14 binds lipopolysaccharide molecule in a reaction catalyzed by lipo-polysaccharide-binding protein (LBP), an acute phase serum protein. The soluble sCD14 is able to discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. CD14 affects allergic, inflammatory and infectious processes.

**Synonyms:**

CD14

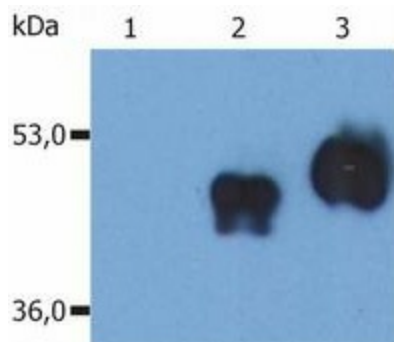
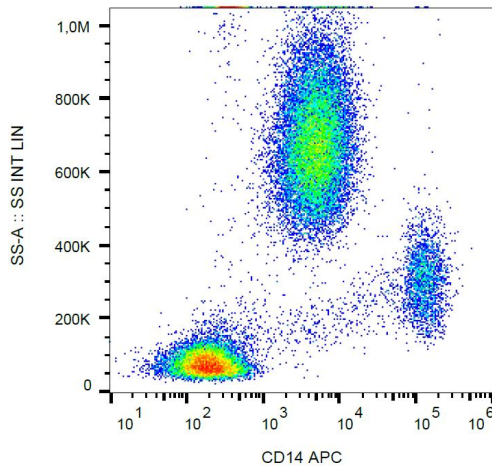
**Product images:**


Fig. 1. Western Blotting analysis (non-reducing conditions) of over-expressed human CD14 using anti-CD14 (MEM-18). Lane 1: whole cell lysate HEK 293 transfected with empty vector; Lane 2: tissue culture supernatant collected after cultivation of HEK 293 transfected with human CD14 cDNA; Lane 3: whole cell lysate of HEK 293 transfected with human CD14 cDNA



Surface staining of human peripheral blood leukocytes using anti-human CD14 (clone MEM-18) APC.