

## Product datasheet for **SM3163F**

### CD14 Mouse Monoclonal Antibody [Clone ID: MEM-15]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-15
Applications:	FC
Recommended Dilution:	<b>Flow cytometry</b> (20 µl to label 10 <sup>6</sup> cells or 100 µl whole blood). The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human, Primate
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-15 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. The antibody also reacts with soluble forms of CD14 found in serum and in the urine of some nephrotic patients.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.
Conjugation:	FITC
Storage:	Store the antibody at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD14 molecule
Database Link:	<a href="#">Entrez Gene 929 Human P08571</a>



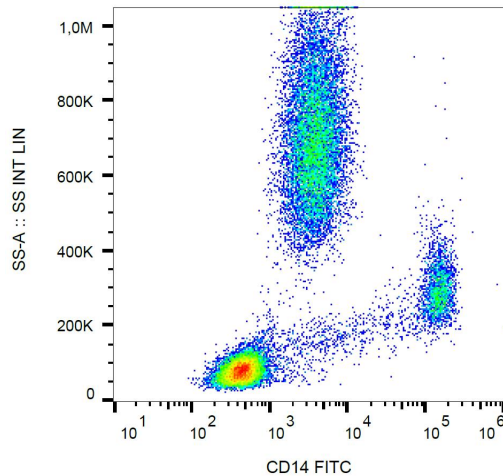
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**Background:**

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 lipopolysaccharide-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:**

Surface staining of human peripheral blood cells with anti-human CD14 (MEM-15) FITC.