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CD14 (61D3) Mouse mAb (PE Conjugate)

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P08571	Entrez-Gene Id: 929
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	Dilution 1:20 1:20
Storage	Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	CD14 (61D3) Mouse mAb (PE Conjugate) recognizes endogenous levels of total CD14 protein. This antibody detects an epitope within the extracellular domain.	
Source / Purification	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.	
Description	This Cell Signaling Technology antibody is conjugated to PE and tested in-house for direct flow cytometry analysis in human cells.	
Background	CD14 is a leucine-rich repeat-containing pattern recognition receptor with expression largely restricted to the monocyte/macrophage cell lineage (1). Research studies have shown that CD14 is a bacterial lipopolysaccharide (LPS) binding glycoprotein, expressed as either a GPI-linked membrane protein or a soluble plasma protein (2). LPS induces an upregulation of GPI-linked CD14 expression, which facilitates TLR4 signaling and macrophage activation in response to bacterial infection (3-5). The 61D3 antibody is widely used to identify cells of the monocyte/macrophage lineage (6).	
Background References	<ol style="list-style-type: none"> 1. Wright, S.D. et al. (1991) <i>J Exp Med</i> 173, 1281-6. 2. Ziegler-Heitbrock, H.W. and Ulevitch, R.J. (1993) <i>Immunol Today</i> 14, 121-5. 3. Suzuki, M. et al. (2009) <i>J Immunol</i> 182, 6485-93. 4. Pugjin, J. et al. (1994) <i>Immunity</i> 1, 509-16. 5. Zanoni, I. et al. (2011) <i>Cell</i> 147, 868-80. 6. Flora, P.K. and Gregory, C.D. (1994) <i>Eur J Immunol</i> 24, 2625-32. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Vir: Virus Mi: Mink C: Chicken Dm: D. melanogaster X: Xenopus Z: Zebrafish B: Bovine Dg: Dog Pg: Pig Sc: S. cerevisiae Ce: C. elegans Hr: Horse GP: Guinea Pig Rab: Rabbit G: Goat All: All Species Expected
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