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## CD14 (61D3) Mouse mAb (violetFluor™ 450 Conjugate)

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

<b>Applications:</b> FC-FP, FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P08571	<b>Entrez-Gene Id:</b> 929
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Product Usage Information	Application	Dilution
	Flow Cytometry (Fixed/Permeabilized)	1:20
	Flow Cytometry (Live)	1:20
<b>Storage</b>	Supplied in 10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	CD14 (61D3) Mouse mAb (violetFluor™ 450 Conjugate) recognizes endogenous levels of total CD14 protein. This antibody detects an epitope within the extracellular domain.	
<b>Source / Purification</b>	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.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to violetFluor™ 450 and tested in-house for direct flow cytometry analysis in human cells.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Wright, S.D. et al. (1991) <i>J Exp Med</i> 173, 1281-6.</li> <li>2. Ziegler-Heitbrock, H.W. and Ulevitch, R.J. (1993) <i>Immunol Today</i> 14, 121-5.</li> <li>3. Suzuki, M. et al. (2009) <i>J Immunol</i> 182, 6485-93.</li> <li>4. Pugin, J. et al. (1994) <i>Immunity</i> 1, 509-16.</li> <li>5. Zanoni, I. et al. (2011) <i>Cell</i> 147, 868-80.</li> <li>6. Flora, P.K. and Gregory, C.D. (1994) <i>Eur J Immunol</i> 24, 2625-32.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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