

CD14 (D7A2T) Rabbit mAb

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50-60	Source/Isotype: Rabbit IgG	UniProt ID: #P08571	Entrez-Gene Id: 929
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	CD14 (D7A2T) Rabbit mAb recognizes endogenous levels of total CD14 protein. This antibody cross-reacts with a 22 kDa protein of unknown origin in some cell lines.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro319 of human CD14 protein.	
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).	
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. Pugin, J. et al. (1994) <i>Immunity</i> 1, 509-16. 5. Zanoni, I. et al. (2011) <i>Cell</i> 147, 868-80. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	H: Human	
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