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anti-CD14 antibody (PE)





Publications



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Quantity:	100 tests
Target:	CD14
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD14 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)
Product Details	
Immunogen:	A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine
	of a patient suffering from proteinuria.
Clone:	MEM-18
Isotype:	lgG1
Specificity:	The antibody MEM-18 reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked
	extracellular 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.
Cross-Reactivity (Details):	Non-Human Primates, Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.
	Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Endotoxin Level:	Low Endotoxin

Target Details

Target:	CD14		
Alternative Name:	CD14 (CD14 Products)		
Background:	CD14 Molecule,CD14 is a 55 kDa GPI-anchored glycoprotein, constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils, where it 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		
Gene ID:	and infectious processes.,LPS-receptor, LPSR, MCLR 929		
UniProt:	P08571		
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades		
Application Details			
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μ L reagen / 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.		
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.		
Restrictions:	For Research Use only		
Handling			
Reconstitution:	No reconstitution is necessary.		
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.		

Handling

Handling Advice:	Do not freeze.		
	Avoid prolonged exposure to light.		
Storage:	4 °C		
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.		
Publications			
Product cited in:	Weiss, Lichtenauer, Kirchner, Stock, Aurich, Christ, Brockhoff, Kunz-Schughart, Jauch, Schlitt,		
	Theolor: "I languig progenitor calls from adult human livers for call transplantation " in: Cut Val		

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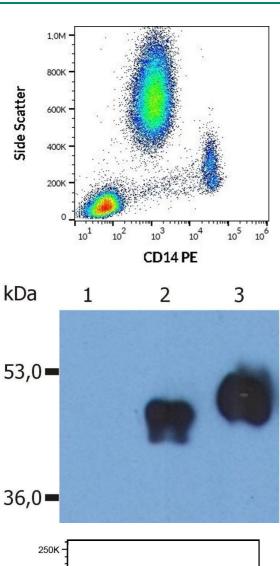
Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).

Angel, Lala, Chen, Edgar, Ostrovsky, Dunbar: "CD14+ antigen-presenting cells in human dermis are less mature than their CD1a+ counterparts." in: **International immunology**, Vol. 19, Issue 11, pp. 1271-9, (2007) (PubMed).

Iwaki, Nishitani, Mitsuzawa, Hyakushima, Sano, Kuroki: "The CD14 region spanning amino acids 57-64 is critical for interaction with the extracellular Toll-like receptor 2 domain." in: **Biochemical and biophysical research communications**, Vol. 328, Issue 1, pp. 173-6, (2005) (PubMed).

Sing, Rost, Tvardovskaia, Roggenkamp, Wiedemann, Kirschning, Aepfelbacher, Heesemann: "Yersinia V-antigen exploits toll-like receptor 2 and CD14 for interleukin 10-mediated immunosuppression." in: **The Journal of experimental medicine**, Vol. 196, Issue 8, pp. 1017-24, (2002) (PubMed).

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Flow Cytometry

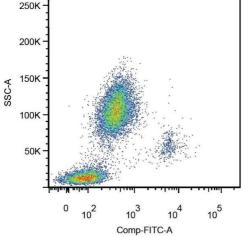
Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD14 (MEM-18) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).

Western Blotting

Image 2. 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

Flow Cytometry

Image 3. Surface staining of human peripheral blood leukocytes using anti-human CD14



Please check the product details page for more images. Overall 4 images are available for ABIN93967.