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anti-CD14 antibody (Biotin)



Endotoxin Level:



Publications



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Overview	
Quantity:	0.1 mg
Target:	CD14
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD14 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunoprecipitation (IP)
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 biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

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
	and infectious processes.,LPS-receptor, LPSR, MCLR
Gene ID:	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: recommended dilution: 2-4 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagen
	is free of unconjugated biotin.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	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 Advice:	Do not freeze.
	Avoid prolonged exposure to light.

Storage Comment:

Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Weiss, Lichtenauer, Kirchner, Stock, Aurich, Christ, Brockhoff, Kunz-Schughart, Jauch, Schlitt, Thasler: "Hepatic progenitor cells from adult human livers for cell transplantation." in: **Gut**, Vol. 57, Issue 8, pp. 1129-38, (2008) (PubMed).

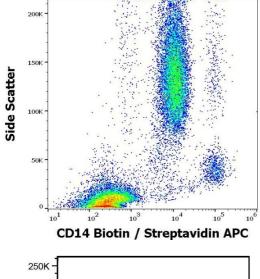
Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).

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).

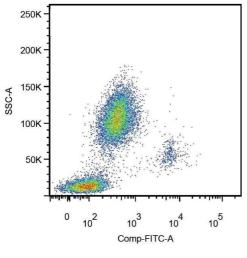
Sing, Rost, Tvardovskaia, Roggenkamp, Wiedemann, Kirschning, Aepfelbacher, Heesemann: "Yersinia V-antigen exploits toll-like receptor 2 and CD14 for interleukin 10-mediated immunosuppression." in: **The Journal of experimental medicine**, Vol. 196, Issue 8, pp. 1017-24, (2002) (PubMed).

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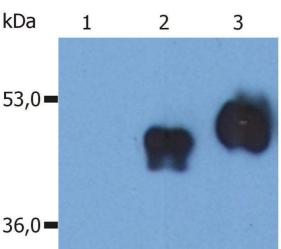
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD14 (MEM-18) Biotin antibody (concentration in sample 6 μ g/mL, Streptavidin APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood leukocytes using anti-human CD14



Western Blotting

Image 3. 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

Please check the product details page for more images. Overall 4 images are available for ABIN93965.