

Anti-CD14 Antibody

Catalog # AP95477

Product Information

Application	WB, FC, IF/IC
Primary Accession	P08571
Reactivity	Human
Host	Mouse
Clonality	Monoclonal (clone: 3C10)
Calculated MW	40076

Additional Information

Gene ID	929
Other Names	Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; CD antigen CD14)
Target/Specificity	Native purified human CD14.
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/500 - 1/2000) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

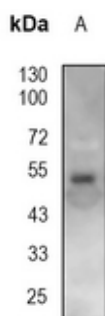
Protein Information

Name	CD14
Function	Coreceptor for bacterial lipopolysaccharide (PubMed: 1698311 , PubMed: 23264655). In concert with LBP, binds to monomeric lipopolysaccharide and delivers it to the LY96/TLR4 complex, thereby mediating the innate immune response to bacterial lipopolysaccharide (LPS) (PubMed: 20133493 , PubMed: 22265692 , PubMed: 23264655). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed: 8612135). Acts as a coreceptor for TLR2:TLR6 heterodimer in response to diacylated lipopeptides and for TLR2:TLR1 heterodimer in response to triacylated lipopeptides, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway (PubMed: 16880211). Binds electronegative LDL (LDL(-)) and mediates the cytokine release induced by LDL(-) (PubMed: 23880187).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Membrane raft. Golgi apparatus. Note=Secreted forms may arise by cleavage of the GPI anchor.

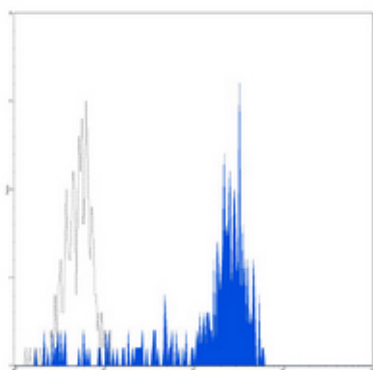
Tissue Location

Detected on macrophages (at protein level) (PubMed:1698311). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

Images



Western blot analysis of CD14 expression in mouse lung (A) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 53 kD)



Flow cytometric analysis of human peripheral blood monocytes using Anti-CD14 Antibody, followed by anti-mouse IgG PE.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.