

CD14 Antibody

Rabbit mAb Catalog # AP90725

Product Information

Application Primary Accession Reactivity Clonality Other Names	WB, IHC, IF, ICC, IHF <u>P08571</u> Human Monoclonal CD14; Monocyte differentiation antigen CD14; Myeloid cell specific leucine rich glycoprotein;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	40076

Additional Information

Dilution Purification Immunogen Description	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 Affinity-chromatography A synthesized peptide derived from human CD14 CD14 antigen is a GPI-linked glycoprotein with a molecular weight of 55kD. The CD14 antigen is expressed on cells of the myelomonocytic lineage
Storage Condition and Buffer	including monocytes, macrophages and Langerhans cells. Low expression is observed on neutrophils and on human B cells. CD14 antigen is a receptor for bacterial lipopolysaccharide (LPS, endotoxin) and the lipopolysaccharide binding protein (LBP). LBP and CD14 antigen serves two physiological roles.

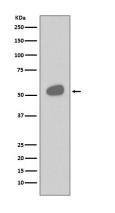
Protein Information

Name	CD14
Function	Coreceptor for bacterial lipopolysaccharide (PubMed: <u>1698311</u> , PubMed: <u>23264655</u>). 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: <u>20133493</u> , PubMed: <u>22265692</u> , PubMed: <u>23264655</u>). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed: <u>8612135</u>). 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: <u>16880211</u>). Binds electronegative LDL (LDL(-)) and mediates the cytokine release induced by

LDL(-) (PubMed:23880187).

Cellular LocationCell membrane; Lipid-anchor, GPI-anchor. Secreted. Membrane raft. Golgi
apparatus. Note=Secreted forms may arise by cleavage of the GPI anchor.Tissue LocationDetected 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 Human tonsil cell lysate.

Image not found : 202311/AP90725-IHC.jpg	Immunohistochemical analysis of paraffin-embedded human breast, using CD14 Antibody.
Image not found : 202311/AP90725-IF.jpg	Immunofluorescent analysis of K562 cells, using CD14 Antibody.

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