

# CD14 Antibody

Rabbit mAb

Catalog # AP90725

## Product Information

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

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human CD14
<b>Description</b>	CD14 antigen is a GPI-linked glycoprotein with a molecular weight of 55kD. The CD14 antigen is expressed on cells of the myelomonocytic lineage 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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

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

LDL(-) (PubMed:[23880187](#)).

### Cellular Location

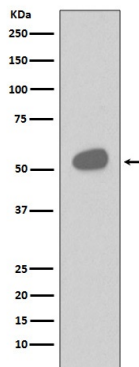
Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Membrane raft. Golgi apparatus. Note=Secreted forms may arise by cleavage of the GPI anchor.

### 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

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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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