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CD14 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS12612

Specification

CD14 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P08571
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**

CD14 Antibody (Internal) - Additional Information

Gene ID 929

Other Names
Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein, CD14, Monocyte differentiation antigen CD14, urinary form, Monocyte differentiation antigen CD14, membrane-bound form, CD14

Target/Specificity
Human CD14.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
CD14 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CD14 Antibody (Internal) - 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:23264655, PubMed:22265692). 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.

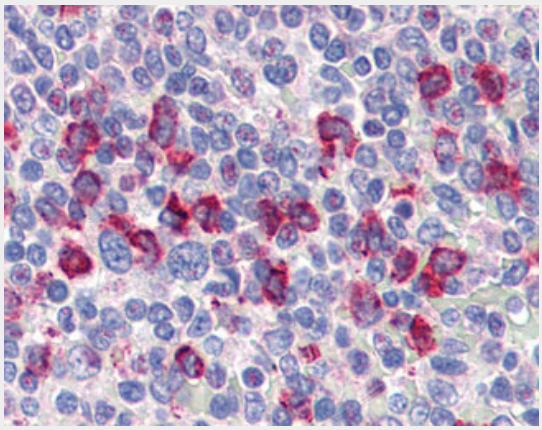
Tissue Location
Detected on macrophages (at protein level) (PubMed:1698311). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

CD14 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD14 Antibody (Internal) - Images



Anti-CD14 antibody IHC of human spleen.

CD14 Antibody (Internal) - Background

In concert with LBP, binds to monomeric lipopolysaccharide and delivers it to the MD-2/TLR4 complex, thereby mediating the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

CD14 Antibody (Internal) - References

Haziot A.,et al.J. Immunol. 141:547-552(1988).
Ferrero E.,et al.Nucleic Acids Res. 16:4173-4173(1988).
Setoguchi M.,et al.Biochim. Biophys. Acta 1008:213-222(1989).
Simmons D.L.,et al.Blood 73:284-289(1989).
Long J.Y.,et al.Sheng Wu Hua Xue Yu Sheng Wu Wu Li Jin Zhan 25:377-378(1998).