

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](http://www.uniprot.org/citations/1698311)), PubMed:[23264655](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20133493)), PubMed:[22265692](http://www.uniprot.org/citations/22265692)), PubMed:[23264655](http://www.uniprot.org/citations/23264655)). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:[8612135](http://www.uniprot.org/citations/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

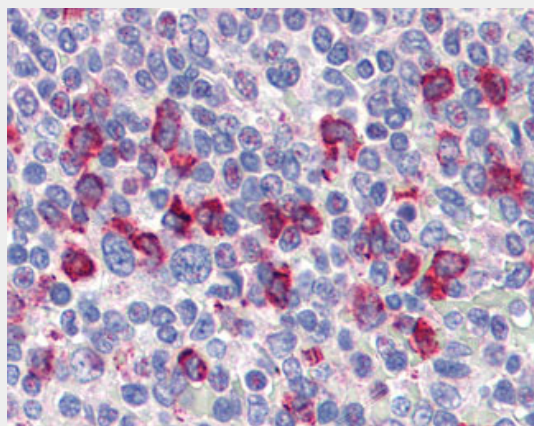
Detected on macrophages (at protein level) (PubMed:1698311). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

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 Cytometry](#)
- [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).