

CD14 Antibody (clone 61D3)
Mouse Monoclonal Antibody
Catalog # ALS12957**Specification**

CD14 Antibody (clone 61D3) - Product Information

Application	IHC
Primary Accession	P08571
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	40kDa KDa

CD14 Antibody (clone 61D3) - 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

Reconstitution & Storage

Store at 4°C, avoid repeated freeze thaw cycles.

Precautions

CD14 Antibody (clone 61D3) is for research use only and not for use in diagnostic or therapeutic procedures.

CD14 Antibody (clone 61D3) - 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](http://www.uniprot.org/citations/16880211))

target="_blank">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

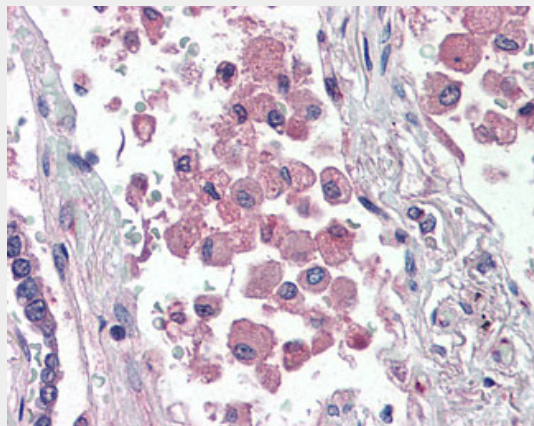
Detected on macrophages (at protein level) (PubMed:1698311). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

CD14 Antibody (clone 61D3) - 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 (clone 61D3) - Images



Anti-CD14 antibody IHC of human lung.

CD14 Antibody (clone 61D3) - 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 (clone 61D3) - 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).