

**CD14**  
**Rabbit Monoclonal Antibody (Mab)**  
**Catalog # APA058****Specification**

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**CD14 - Product Information**

Application	IHC
Primary Accession	<a href="#">P08571</a>
Host	Rabbit
Clonality	Monoclonal
Calculated MW	40076 Da

**CD14 - Additional Information**

Gene ID	929
Gene Name	CD14

**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

**Dilution**

IHC~~1:100~500

Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD14 is for research use only and not for use in diagnostic or therapeutic procedures.

**CD14 - Protein Information****Name** CD14

Function	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="#">23264655</a> , PubMed: <a href="#">22265692</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
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**Cellular Location****Tissue Location**

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](#)).

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