

CD14
Rabbit Monoclonal antibody(Mab)
Catalog # AD80058

Specification

CD14 - Product info

Application	IHC-P, IHC
Primary Accession	P08571
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	40076

CD14 - Additional info

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-P~~Ready-to-use
IHC~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions

CD14 Antibody 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:[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](#)). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:[8612135](#)).

Cellular Location

Tissue Location

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](#)).

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

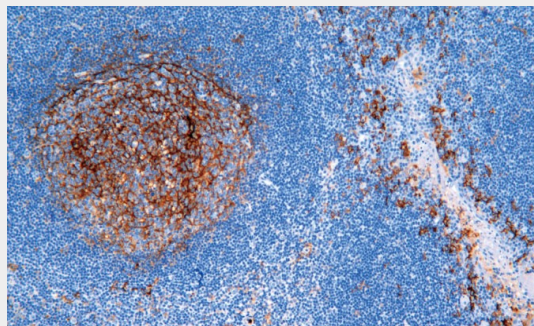
Detected on macrophages (at protein level) (PubMed:[1698311](#)). Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

CD14 - Protocols

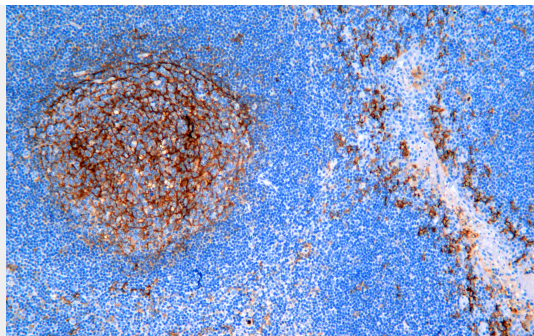
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD14 - Images



Tonsil



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80058 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9.0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.