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CD-14 Antibody (Clone biG 10)

Mouse Monoclonal Antibody
Catalog # ABV10512

Specification

CD-14 Antibody (Clone biG 10) - Product Information

Application	**WB, E**
Primary Accession	P08571
Reactivity	**Human, Bovine, Horse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG**
Calculated MW	**40076**

CD-14 Antibody (Clone biG 10) - Additional Information

Gene ID 929

Application & Usage	**Suitable for immunostaining of CD14positive cells (Flow Cytometry); ELISA; CD14 inhibition studies; Western Blot**

Other Names
CD14, Cluster of differentiation 14

Target/Specificity
CD-14

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
Human CD-14 was lyophilized from a concentrated protein solution (1 mg/ml) containing phosphate-buffered saline, pH 7.2

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
CD-14 Antibody (Clone biG 10) is for research use only and not for use in diagnostic or therapeutic procedures.

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CD-14 Antibody (Clone biG 10) - 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:22265692, PubMed:23264655). 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.

CD-14 Antibody (Clone biG 10) - 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

CD-14 Antibody (Clone biG 10) - Images

CD-14 Antibody (Clone biG 10) - Background

The CD14 glycoprotein, gp 55, is present on most monocytic and macrophages like cell types: monocytes, macrophages, Kupffer cells, pleural phagocytic cells and dendritic reticular cells. CD14 is also observed on granulocytes and activated or transformed B-cells. Furthermore CD14 is present in a soluble form in human serum, urine and other body fluids. The CD14 molecule has been reported to be a receptor for endotoxin.