DATASHEET

CD14 Mouse Monoclonal Antibody(C2590)

CAT. NO. AMA02202

KEY FEATURES

Target	CD14	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Coreceptor for bacterial lipopolysaccharide . 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) . Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response . 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 . Binds electronegative LDL (LDL(-)) and mediates the cytokine release induced by LDL(-) .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to CD14
Specificity	Recognizes endogenous levels of CD14 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD14 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 40 kD; Observed: 45 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Monocyte differentiation antigen CD14; Myeloid cell-specifIC, leucine-rIC,h glycoprotein; CD14
Gene Symbol	CD14
Entrez Gene	929(Human); 60350(Rat)
SwissProt	P08571(Human); P10810(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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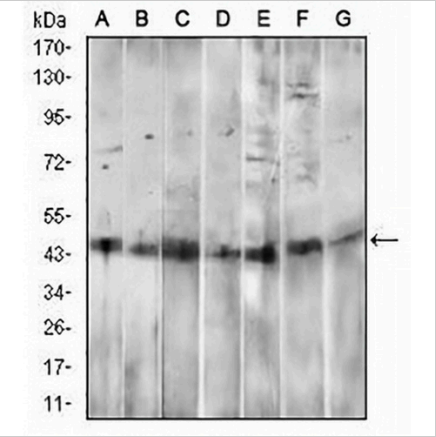
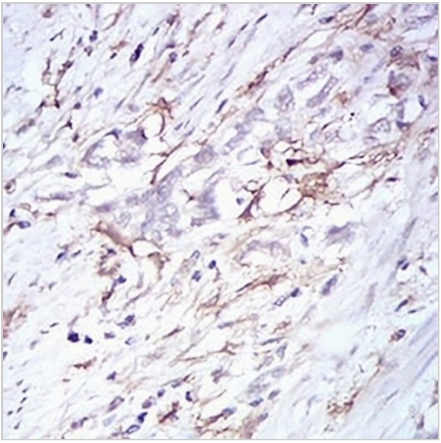
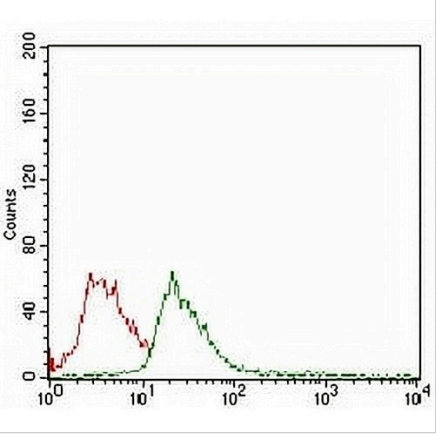
DATA



Western blot analysis of CD14 expression in HepG2 (A), A549 (B), HL60 (C), RAW264.7 (D), Hela (E), HEK293 (F), NIH/3T3 (G) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 45 kD kD)



Immunohistochemical analysis of CD14 staining in human stomach cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of Jurkat cells using Anti-CD14 Antibody (green) and negative control (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.