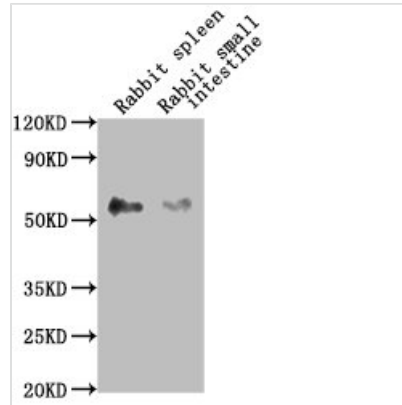




# CD14 Monoclonal Antibody

<b>Product Code</b>	CSB-MA004879A0m
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P08571
<b>Immunogen</b>	Recombinant Human Monocyte differentiation antigen CD14 protein (20-345AA)
<b>Raised In</b>	Mouse
<b>Species Reactivity</b>	Human, Mouse, Rabbit
<b>Tested Applications</b>	ELISA, WB, IF, FC; Recommended dilution: WB:1:1000-1:5000,, IF:1:50-1:200
<b>Relevance</b>	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). 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).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
<b>Purification Method</b>	>95%, Protein A purified
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Monoclonal Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Target Names</b>	CD14
<b>Clone No.</b>	14G1F3
<b>Image</b>	



**Western Blot**

Positive WB detected in: Rabbit spleen tissue, Rabbit small intestine tissue

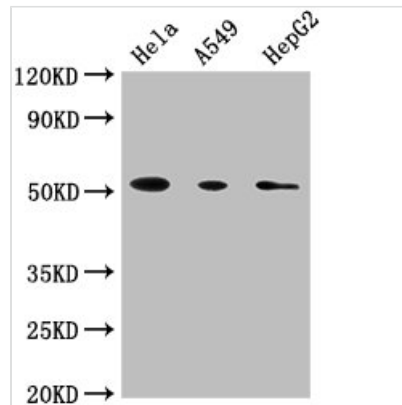
All lanes: CD14 antibody at 1:2500

Secondary

Goat polyclonal to Mouse IgG at 1/10000 dilution

Predicted band size: 41 kDa

Observed band size: 55 kDa



**Western Blot**

Positive WB detected in: HeLa whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate

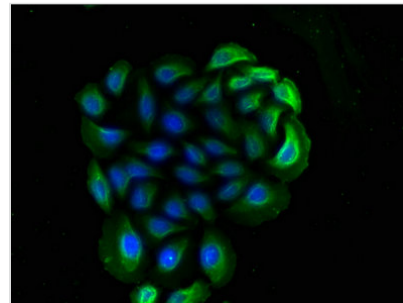
All lanes: CD14 antibody at 1:1800

Secondary

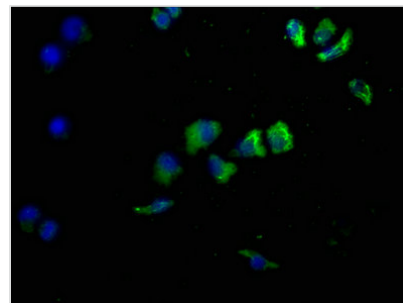
Goat polyclonal to Mouse IgG at 1/10000 dilution

Predicted band size: 41 kDa

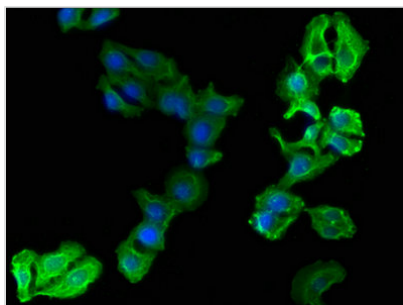
Observed band size: 55 kDa



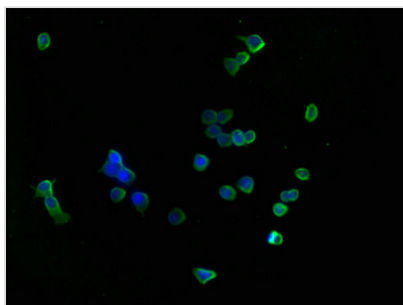
Immunofluorescence staining of A549 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



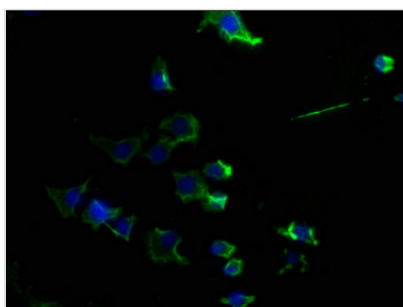
Immunofluorescence staining of HeLa cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



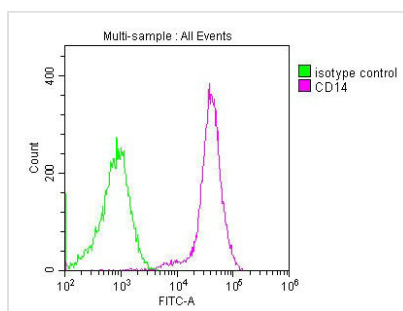
Immunofluorescence staining of HepG2 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



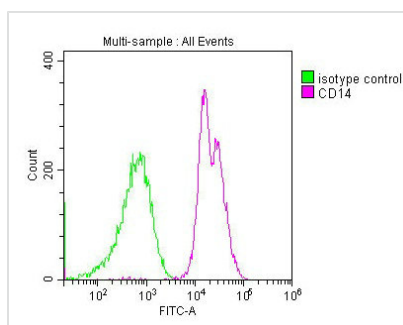
Immunofluorescence staining of RAW264.7 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of SY5Y cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing Jurkat cells stained with CSB-MA004879A0m (red line) at 1:180. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.



Overlay histogram showing RAW264.7 cells stained with CSB-MA004879A0m (red line) at 1:180. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.