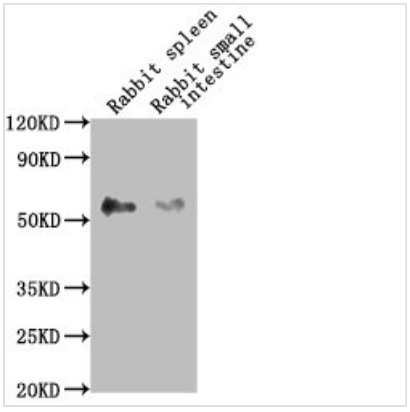
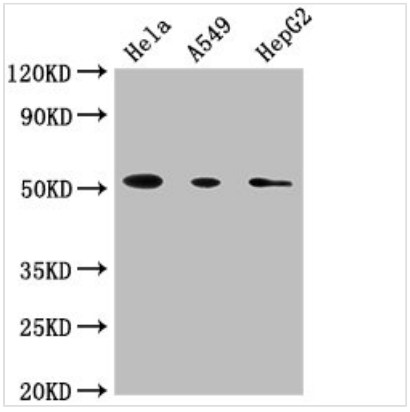
CD14 Monoclonal Antibody

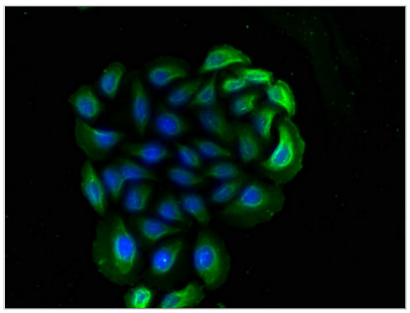
Product Code	CSB-MA004879A0m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P08571
Immunogen	Recombinant Human Monocyte differentiation antigen CD14 protein (20-345AA)
Raised In	Mouse
Species Reactivity	Human, Mouse, Rabbit
Tested Applications	ELISA, WB, IF, FC; Recommended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



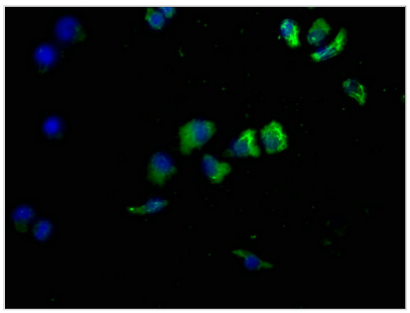
Western Blot
Positive WB detected in: Rabbit spleen tissue, Rabbit small intestine tissue
All lanes: CD14 antibody at 1:2500
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



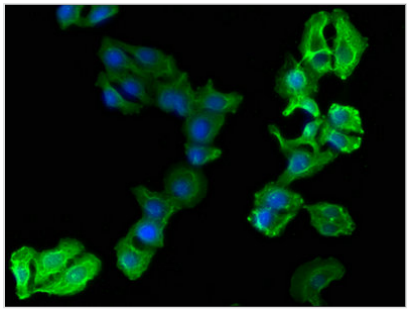
Western Blot
Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate
All lanes: CD14 antibody at 1:1800
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



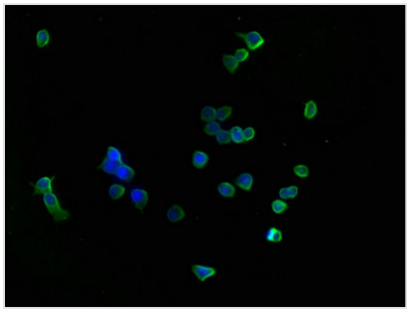
Immunofluorescence staining of A549 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



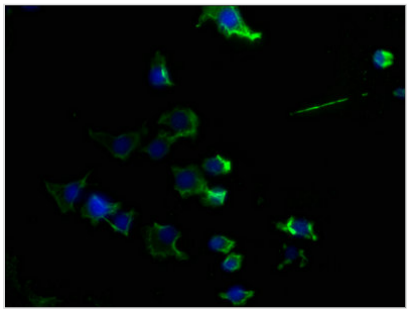
Immunofluorescence staining of Hela cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



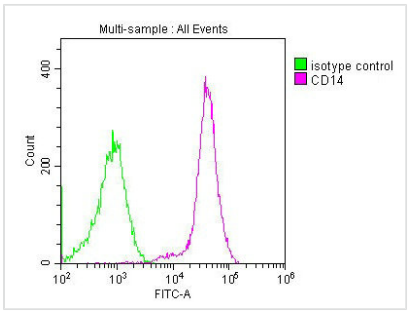
Immunofluorescence staining of HepG2 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



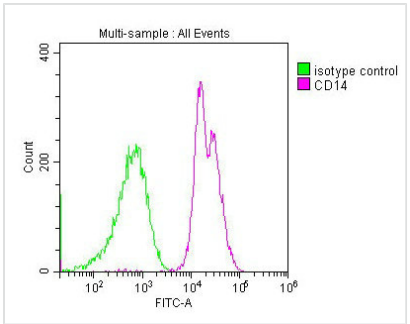
Immunofluorescence staining of RAW264.7 cells with CSB-MA004879A0m at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



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-congugated 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.