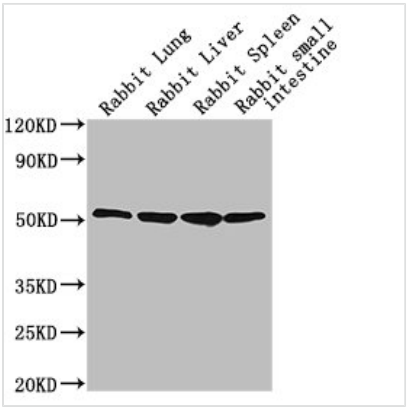
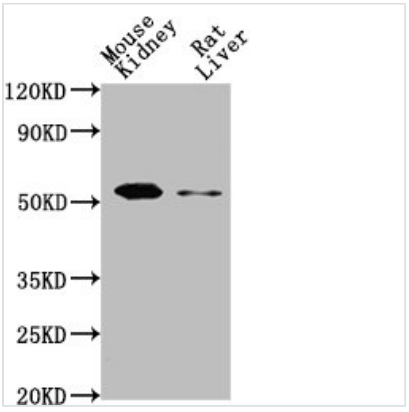
CD14 Monoclonal Antibody

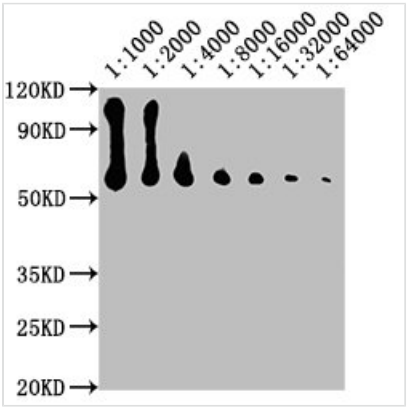
Product Code	CSB-MA004879A1m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P08571
Immunogen	Recombinant Human Monocyte differentiation antigen CD14 protein (20-345AA)
Raised In	Mouse
Species Reactivity	Human, Mouse, Rat, Rabbit
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:1000-1:64000, IHC:1:50-1:200, 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
Alias	Monocyte differentiation antigen CD14 (Myeloid cell-specific leucine-rich glycoprotein) (CD antigen CD14) [Cleaved into: Monocyte differentiation antigen CD14, urinary form; Monocyte differentiation antigen CD14, membrane-bound form], CD14
Product Type	Monoclonal Antibody
Species	Human
Gene Names	CD14
Accession NO.	1A7C5
Image	



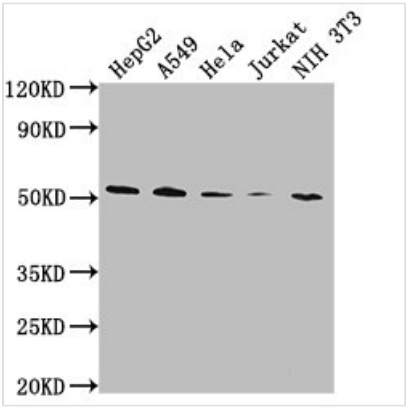
Western Blot
Positive WB detected in: Rabbit lung tissue, Rabbit liver tissue, Rabbit spleen tissue, Rabbit small intestine tissue
All lanes: CD14 antibody at 1:2500
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



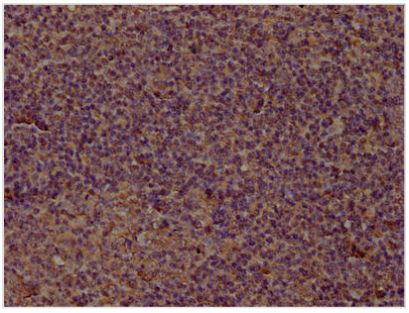
Western Blot
Positive WB detected in: Mouse kidney tissue, Rat liver tissue
All lanes: CD14 antibody at 1:2000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



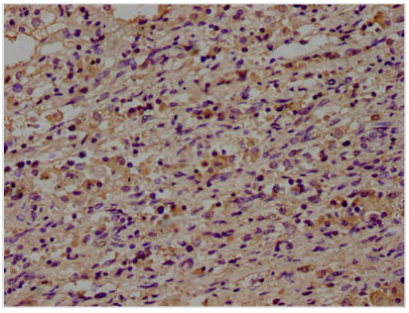
Western Blot
Positive WB detected in: NIH/3T3 whole cell lysate
All lanes: CD14 antibody at at 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, 1:64000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



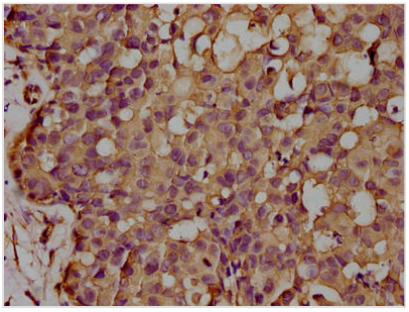
Western Blot
Positive WB detected in: HepG2 whole cell lysate, A549 whole cell lysate, Hela whole cell lysate, Jurkat whole cell lysate, NIH/3T3 whole cell lysate
All lanes: CD14 antibody at 1:1000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 41 kDa
Observed band size: 55 kDa



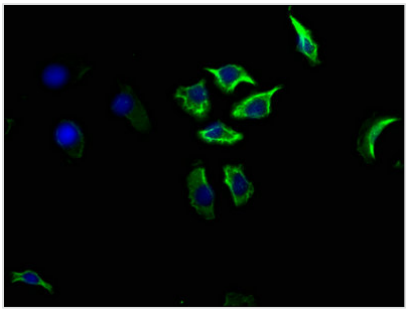
IHC image of CSB-MA004879A1m diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



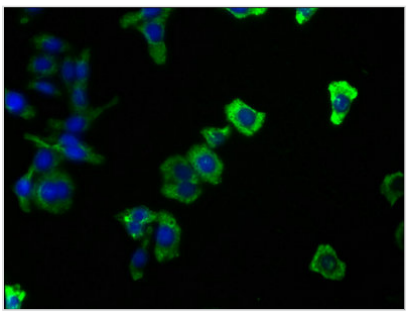
IHC image of CSB-MA004879A1m diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



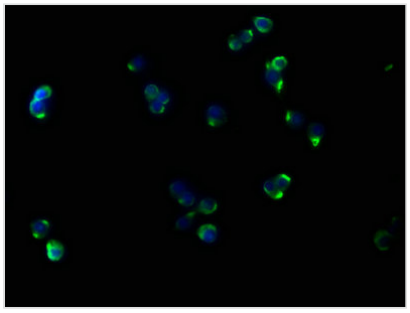
IHC image of CSB-MA004879A1m diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of A549 cells with CSB-MA004879A1m at 1:100, 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-MA004879A1m at 1:100, 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-MA004879A1m at 1:100, 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).