BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-CD14 Antibody (N-term)

Catalog Number: A00137-1

About CD14

CD14 is a surface protein preferentially expressed on monocytes/macrophages. It binds lipopolysaccharide binding protein and recently has been shown to bind apoptotic cells.

Overview

Product Name	Anti-CD14 Antibody (N-term)
Reactive Species	Human
Description	Boster Bio Anti-CD14 Antibody (N-term) (Catalog # A00137-1). Tested in IHC-P, Flow Cytometry, WB, IF, IHC-P-Leica application(s). This antibody reacts with Human.
Application	Flow Cytometry, IF, IHC-P, WB, IHC-P-Leica
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08571

Technical Details

Immunogen	This CD14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 54-83 amino acids from the N-terminal region of human CD14.
Predicted Reactive Species	Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:25 WB: 1:2000

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	IHC-P-Leica: 1:1000 FC: 1:10-1:50

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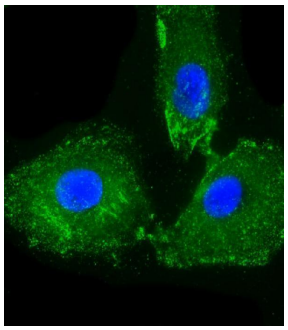
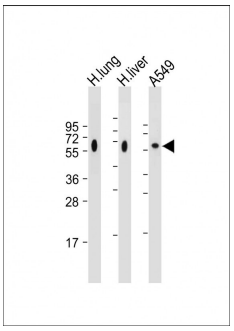
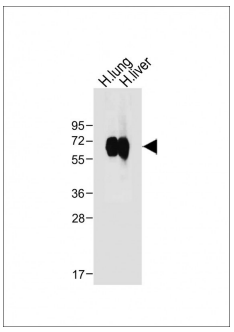
Anti-CD14 Antibody (N-term) (A00137-1) Images



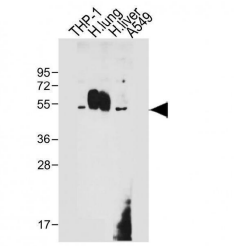
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized A549 cells labeling CD14 with A00137-1 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and membrance staining on A549 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin at 1/500 dilution (red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-CD14 Antibody (N-term) at 1:2000 dilutionLane 1: Human lung tissue lysateLane 2: Human liver tissue lysateLane 3: A549 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-CD14 Antibody (N-term) at 1:1000 dilutionLane 1: Human lung tissue lysateLane 2: Human liver tissue lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-CD14 Antibody (N-term) at 1:1000 dilutionLane 1: THP-1 whole cell lysateLane 2: Human lung tissue lysateLane 3: Human liver tissue lysateLane 4: A549 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

All lanes : Anti-CD14 Antibody (N-term) at 1:2000 dilutionLane 1: Human liver lysateLane 2: Human lung lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

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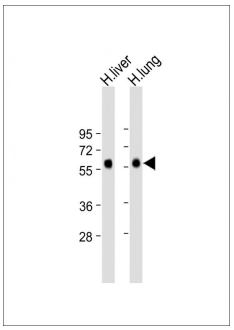
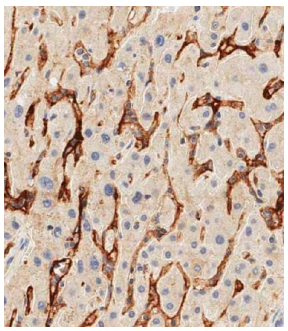
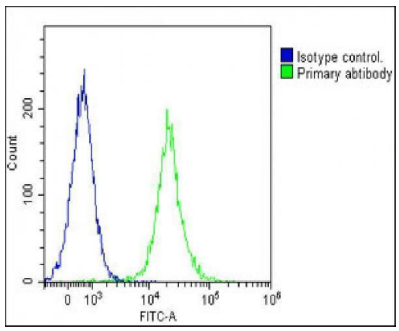




Immunohistochemical analysis of paraffin-embedded human liver tissue using A00137-1 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:1000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing Jurkat cells stained with A00137-1 (green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1ug/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-CD14 Antibody (N-term)

For Research Use Only. Not for use in diagnostic procedures.