BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-CD14 Antibody Picoband®

**Catalog Number:** PA1443

## About Cd14

CD14, Cluster of differentiation 14, single-copy gene encoding 2 protein forms: a 50- to 55-kD glycosylphosphatidylinositol-anchored membrane protein (mCD14) and a monocyte or liver-derived soluble serum protein (sCD14) that lacks the anchor. By in situ hybridization and study of somatic cell hybrid DNA that the gene is located at bands 5q23-q31. CD14 acts as a co-receptor (along with the Toll-like receptor TLR 4 and MD-2) for the detection of bacterial lipopolysaccharide (LPS). CD14 can bind LPS only in the presence of lipopolysaccharide-binding protein (LBP). Although LPS is considered its main ligand, CD14 also recognizes other pathogen-associated molecular patterns.

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## Overview

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| Product Name | Anti-CD14 Antibody Picoband® |
| Reactive Species | Mouse |
| Description | Boster Bio Anti-CD14 Antibody catalog # PA1443. Tested in WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| Storage Instructions | Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P10810 |

## Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of mouse CD14. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |

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| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Mouse |

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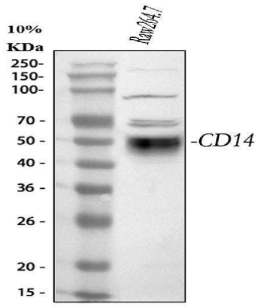
# Anti-CD14 Antibody Picoband® (PA1443) Images




Western blot analysis of CD14 using anti-CD14 antibody (PA1443). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD14 antigen affinity purified polyclonal antibody (Catalog # PA1443) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CD14 at approximately 50 kDa. The expected band size for CD14 is at 39 kDa.

## 7 Publications Citing This Product

1. PubMed ID: 33500729, Shi M,Shen K,Yang B,Zhang P,Lv K,Qi H,Wang Y,Li M,Yuan Q,Zhang Y. An electroporation strategy to synthesize the membrane-coated nanoparticles for enhanced anti-inflammation therapy in bone infection. Theranostics. 2021 Jan 1;11(5):2349-2363.doi:10.7150/th

2. PubMed ID: 23346371, Huang J, Zhu C, Zhang P, Zhu Q, Liu Y, Zhu Z, Wang M, Li W, Yang G, Dong N, Liu J, Chen L, Zhang Y, Yang R, Deng L, Fan J, Wang X, Liu J, Ma B, Fu Q, Wu K. Sci Rep. 2013;3:1114. Doi: 10.1038/Srep01114. Epub 2013 Jan 23. S100+ Cells: A New Neuro-Im...

3. PubMed ID: 24681515, Liu D, Wang Y, Ye Y, Yin G, Chen L. Cell Immunol. 2014 May-Jun;289(1-2):7-14. Doi: 10.1016/J.Cellimm.2014.01.007. Epub 2014 Feb 2. Distinct Molecular Basis For Endothelial Differentiation: Gene Expression Profiles Of Human Mesenchymal Stem Cells V...

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