BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CD11b/ITGAM Antibody Picoband®

Catalog Number: PA1943-1

About ITGAM

ITGAM (Integrin Alpha-M), also called CD11B or Mo1 ALPHA SUBUNIT (MO1A), is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (alphaMbeta2) molecule. A major surface antigen family on human leukocytes includes complement receptor type 3 (CR3A; also called ITGAM, Mac1, or Mo1), lymphocyte function-associated (LFA) antigen type 1 (ITGAL), and p150, 95 (ITGAX). By in situ hybridization, Corbi et al. (1988) demonstrated that the genes encoding the alpha subunits of LFA1 (ITGAL), Mac1, and p150, 95 (ITGAX), all of which are involved in leukocyte adhesion, constitute a cluster on 16p13.1-p11. Callen et al. (1991) narrowed the assignment to 16p11.2. Inflammation plays an essential role in the initiation and progression of atherosclerosis. Simon et al. (2000) presented evidence that it also has a role in vascular repair after mechanical arterial injury (i.e., percutaneous transluminal coronary angioplasty, or PTCA).

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Overview

Product Name	Anti-CD11b/ITGAM Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD11b/ITGAM Antibody catalog # PA1943-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P11215

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Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD11b, different from the related mouse sequence by one amino acid, and from the related rat sequence by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, Human, Mouse, Rat

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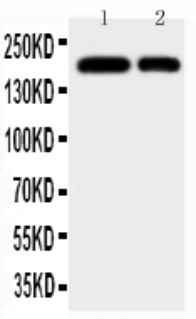
Anti-CD11b/ITGAM Antibody Picoband® (PA1943-1) Images



Anti-CD11b antibody, PA1943-1, All Western blottingAll lanes: Anti-ITGAM(PA1943-1) at 0.5ug/ml Lane 1: JURKAT Whole Cell Lysate at 40ug Lane 2: RAJI Whole Cell Lysate at 40ug Predicted bind size: 127KD Observed bind size: 170KD

7 Publications Citing This Product

1. PubMed ID: 22142175, Yuan Y, Su Z, Pu Y, Liu X, Chen J, Zhu F, Zhu Y, Zhang H, He C. Br J Pharmacol. 2012 May;166(2):749-63. Doi: 10.1111/J.1476-5381.2011.01804.X. Ethyl Pyruvate Promotes Spinal Cord Repair By Ameliorating The Glial Microenvironment.

2. PubMed ID: 25691929, Mu L, Jing C, Guo Z. Iran J Basic Med Sci. 2014 Nov;17(11):874-8. Expressions Of Cd11A, Cd11B, And Cd11C Integrin Proteins In Rats With Myocardial Hypertrophy.

3. PubMed ID: 23158928, Zhao G, Wang S, Wang Z, Sun A, Yang X, Qiu Z, Wu C, Zhang W, Li H, Zhang Y, Zhao J, Zou Y, Ge J. Int J Cardiol. 2013 Sep 30;168(2):853-62. Doi: 10.1016/J.Ijcard.2012.10.022. Epub 2012 Nov 13. Cxcr6 Deficiency Ameliorated Myocardial Ischemia/Reperf...

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