

Anti-CD11b/ITGAM Antibody Picoband™

Catalog Number: A00144-1

About ITGAM

Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (alphaMbeta2) molecule, also known as macrophage-1 antigen (Mac-1) or cluster of differentiation molecule 11B (CD11B). It is mapped to 16p11.2. ITGAM has a role in vascular repair after mechanical arterial injury. It is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. What's more, ITGAM probably recognizes the R-G-D peptide in C3b, and it is also a receptor for fibrinogen, factor X and ICAM1.

Overview

Product Name	Anti-CD11b/ITGAM Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD11b/ITGAM Antibody Picoband™ catalog # A00144-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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

Technical Details

Immunogen	E. coli-derived human CD11b recombinant protein (Position: N129-E336).
Predicted Reactive Species	Chicken
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p> <p>Flow Cytometry, 1-3ug/1x10⁶ cells, Human</p> <p>Direct ELISA, 0.1-0.5ug/ml</p>

Anti-CD11b/ITGAM Antibody Picoband™ (A00144-1) Images

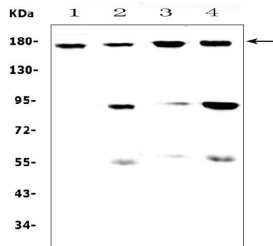


Figure 1. Western blot analysis of CD11b using anti-CD11b antibody (A00144-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat spleen tissue lysates,
Lane 2: rat thymus tissue lysates,
Lane 3: mouse spleen tissue lysates,
Lane 4: mouse thymus tissue lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CD11b antigen affinity purified polyclonal antibody (Catalog # A00144-1) 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 1:10000 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 CD11b at approximately 170KD. The expected band size for CD11b is at 127KD.

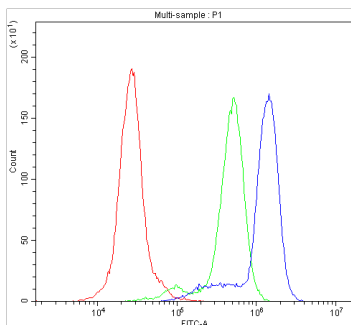


Figure 2. Flow Cytometry analysis of HL-60 cells using anti-CD11b antibody (A00144-1). Overlay histogram showing HL-60 cells stained with A00144-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD11b Antibody (A00144-1, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

5 Publications Citing This Product

1. 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.
2. PubMed ID: 28100749, Promoted interaction of C/EBPβ with demethylated Cxcr3 gene promoter contributes to neuropathic pain in mice
3. PubMed ID: 20582224, Cloning, characterization, and expression analysis of goat (Capra hircus) phospholipid hydroperoxide glutathione peroxidase (PHGPx)

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