BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CD11B/Integrin Alpha M/Itgam Antibody Picoband®

Catalog Number: A00144-2

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.

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Overview

Product Name	Anti-CD11B/Integrin Alpha M/Itgam Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-CD11B/Integrin Alpha M/Itgam Antibody Picoband® catalog # A00144-2. Tested in ELISA, 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P05555

Technical Details

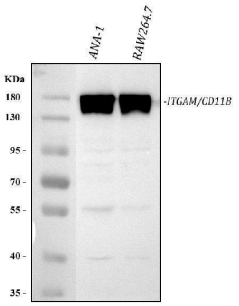
Immunogen	E.coli-derived mouse CD11B/Integrin Alpha M/Itgam recombinant protein (Position: F17-L253).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse ELISA, 0.1-0.5 ug/ml, -

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Anti-CD11B/Integrin Alpha M/Itgam Antibody Picoband® (A00144-2) Images



Western blot analysis of CD11B/Integrin Alpha M/Itgam using anti-CD11B/Integrin Alpha M/Itgam antibody (A00144-2). 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 ANA-1 whole cell lysates, Lane 2: 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-CD11B/Integrin Alpha M/Itgam antigen affinity purified polyclonal antibody (Catalog # A00144-2) 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 CD11B/Integrin Alpha M/Itgam at approximately 170 kDa. The expected band size for CD11B/Integrin Alpha M/Itgam is at 170 kDa.

Anti-CD11B/Integrin Alpha M/Itgam Antibody

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