

## Basic Information

<b>Product Name</b>	Anti-CD11B/Integrin Alpha M/ITGAM Antibody	
<b>Gene Name</b>	ITGAM	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, FCM, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E. coli-derived human CD11b recombinant protein (Position: N129-E336). Human CD11b shares 77.9% and 75.6% amino acid (aa) sequence identity with mouse and rat CD11b, respectively.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	179 kDa	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

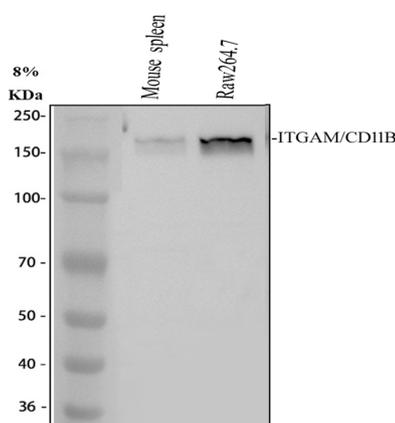
Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 ( $\alpha$ M $\beta$ 2) molecule, also known as macrophage-1 antigen (Mac-1) or cluster of differentiation molecule 11B (CD11B). It is mapped to 16p11.2. ITGAM has a role in vascular repair after mechanical 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.

## Reference

Anti-CD11B/Integrin Alpha M/ITGAM Antibody被引用在1文献中。

## Selected Validation Data



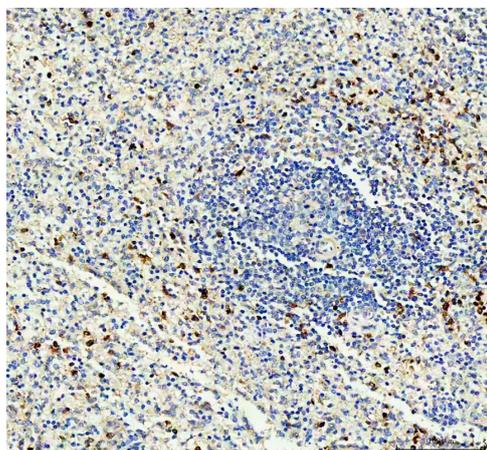
Western blot analysis of CD11B/Integrin Alpha M/ITGAM using anti-CD11B/Integrin Alpha M/ITGAM antibody (A00144-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse spleen tissue lysates,

Lane 2: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-CD11B/Integrin Alpha M/ITGAM antigen A03957-Aen affinity purified polyclonal antibody (A00144-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD11B/Integrin Alpha M/ITGAM at approximately 179 kDa. The expected band size for CD11B/Integrin Alpha M/ITGAM is at 127 kDa.



IHC analysis of CD11B/Integrin Alpha M/ITGAM using anti-CD11B/Integrin Alpha M/ITGAM antibody (A00144-1).

CD11B/Integrin Alpha M/ITGAM was detected in a paraffin-embedded section of human spleen tissue. The tissue section was incubated with rabbit anti-CD11B/Integrin Alpha M/ITGAM Antibody (A00144-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet  
**Anti-CD11B/Integrin Alpha M/ITGAM  
Antibody**

**Catalog Number: A00144-1**

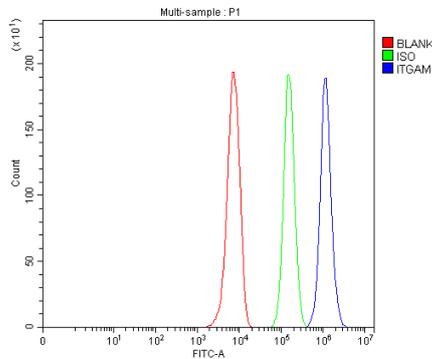
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Flow Cytometry analysis of U937 cells using anti-CD11B/Integrin Alpha M/ITGAM antibody (A00144-1).

Overlay histogram showing U937 cells stained with A00144-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD11B/Integrin Alpha M/ITGAM Antibody (A00144-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.