

Anti-CD11c/Itgax Antibody Picoband™

Catalog Number: A00357-2

About Itgax

CD11c, also known as Integrin, alpha X (complement component 3 receptor 4 subunit) (ITGAX), is a gene that encodes for CD11c. This gene encodes the integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. Two transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-CD11c/Itgax Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-CD11c/Itgax Antibody Picoband™ catalog # A00357-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
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	Q9QXH4

Technical Details

Immunogen	E.coli-derived mouse CD11c/Itgax recombinant protein (Position: F20-E332).
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, 0.25-0.5ug/ml, Mouse</p> <p>Flow Cytometry, 1-3ug/1x10⁶ cells, Mouse</p> <p>Direct ELISA, 0.1-0.5ug/ml, Mouse</p>

Anti-CD11c/Itgax Antibody Picoband™ (A00357-2) Images

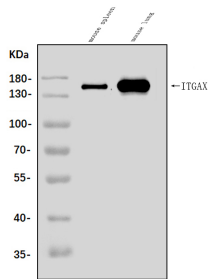


Figure 1. Western blot analysis of CD11c/Itgax using anti-CD11c/Itgax antibody (A00357-2).

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 30ug of sample under reducing conditions.

Lane 1: mouse spleen tissue lysates,
Lane 2: mouse lung 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-CD11c/Itgax antigen affinity purified polyclonal antibody (Catalog # A00357-2) 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 CD11c/Itgax at approximately 150KD. The expected band size for CD11c/Itgax is at 150KD.

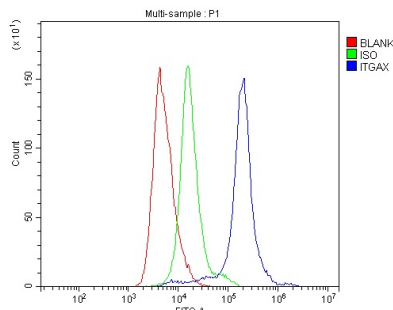


Figure 2. Flow Cytometry analysis of mouse spleen tissues using anti-CD11c/Itgax antibody (A00357-2).

Overlay histogram showing mouse spleen tissues stained with A00357-2 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD11c/Itgax Antibody (A00357-2, 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.

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