

Anti-CD204/Msr1 Antibody Picoband™

Catalog Number: A02349-2

About Msr1

Macrophage scavenger receptor 1, also known as MSR1, is a protein which in humans is encoded by the MSR1 gene. Enables amyloid-beta binding activity; cargo receptor activity; and low-density lipoprotein particle binding activity. Involved in several processes, including endocytosis; positive regulation of cholesterol storage; and positive regulation of macrophage derived foam cell differentiation. Acts upstream of or within lipoprotein transport. Located in plasma membrane. Is expressed in several structures, including alimentary system; limb; neural tube; reproductive system; and yolk sac. Human ortholog(s) of this gene implicated in Barrett's esophagus; arteriosclerosis; and prostate cancer. Orthologous to human MSR1 (macrophage scavenger receptor 1).

Overview

Product Name	Anti-CD204/Msr1 Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-CD204/Msr1 Antibody Picoband™ catalog # A02349-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	P30204

Technical Details

Immunogen	E.coli-derived mouse CD204/Msr1 recombinant protein (Position: M1-D451).
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 ug/ml, Mouse Flow Cytometry, 1-3 ug/1x10⁶ cells, Mouse Direct ELISA, 0.1-0.5 ug/ml, Mouse

Anti-CD204/Msr1 Antibody Picoband™ (A02349-2) Images

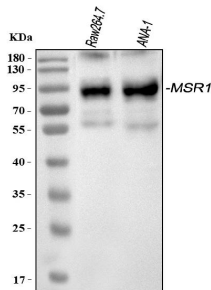


Figure 1. Western blot analysis of CD204/Msr1 using anti-CD204/Msr1 antibody (A02349-2).

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 RAW264.7 whole cell lysates,
Lane 2: mouse ANA-1 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-CD204/Msr1 antigen affinity purified polyclonal antibody (Catalog # A02349-2) 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 CD204/Msr1 at approximately 75-90 kDa. The expected band size for CD204/Msr1 is at 71 kDa.

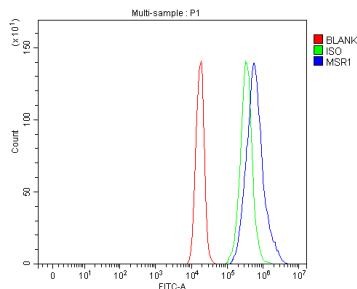


Figure 2. Flow Cytometry analysis of RAW264.7 cells using anti-CD204/Msr1 antibody (A02349-2).

Overlay histogram showing RAW264.7 cells stained with A02349-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD204/Msr1 Antibody (A02349-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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