BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Aim2 Antibody Picoband®

Catalog Number: A00443-1

About Aim2

Interferon-inducible protein AIM2,also known asabsent in melanoma 2or simplyAIM2,is aproteinthat in humans is encoded by theAIM2gene. It is mapped to 1q22. AIM2 is a member of theIfi202/IFI16family. It plays a putative role in tumorigenic reversion and may control cell proliferation.Interferon-gammainduces expression of AIM2. Though there has been virtually no biochemistry performed, a model based on cell-based or in vivo experiments has led to the current model of how AIM2 triggers the inflammasome. The C-terminal HIN domain binds double stranded DNA(either viral, bacterial, or even host) and acts as a cytosolic dsDNA sensor. This leads to the oligomerization of the inflammasome complex. The N-terminal pyrin domain of AIM2 interacts with the pyrin domain of another proteinASC(or Apoptosis-associated Speck-like protein containing a caspase activation and recruitment domain). ASC also contains aCARD domain(caspase activation and recruitment domain), that recruits procaspase-1 to the complex. This leads to the autoactivation ofcaspase-1, an enzyme that processes proinflammatorycytokines(IL-1bandIL-18).

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Overview

Product Name	Anti-Aim2 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-Aim2 Antibody Picoband® catalog # A00443-1. Tested in ELISA, Flow Cytometry, 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, Flow Cytometry, 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	Q91VJ1

Technical Details

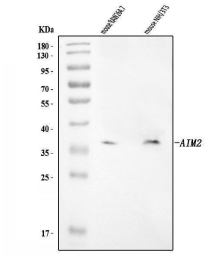
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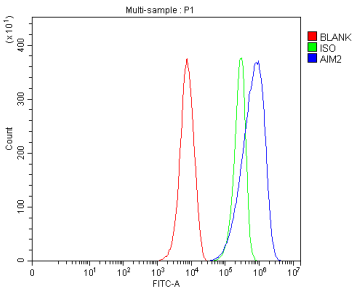
Immunogen	E.coli-derived mouse Aim2 recombinant protein (Position: Q136-E354).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Mouse ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-Aim2 Antibody Picoband® (A00443-1) Images



Western blot analysis of Aim2 using anti-Aim2 antibody (A00443-1). 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 30 ug of sample under reducing conditions. Lane 1: mouse RAW264.7 whole cell lysates, Lane 2: mouse NIH/3T3 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-Aim2 antigen affinity purified polyclonal antibody (Catalog # A00443-1) 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 1:5000 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 Aim2 at approximately 39 kDa. The expected band size for Aim2 is at 39 kDa.



Flow Cytometry analysis of RAW264.7 cells using anti-Aim2 antibody (A00443-1). Overlay histogram showing RAW264.7 cells stained with A00443-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Aim2 Antibody (A00443-1, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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