

Rabbit anti-Mouse Aim2 Polyclonal Antibody | anti-AIM2 antibody

Anti-Aim2 Antibody Picoband

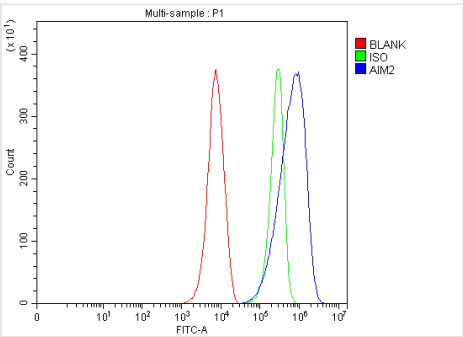
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126025	Rabbit	Mouse	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

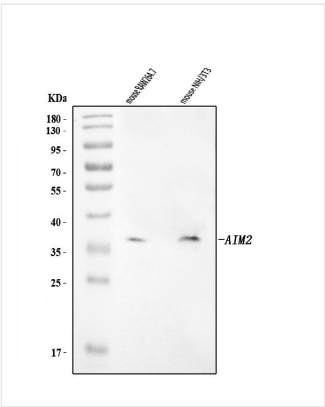
Aim2; Polyclonal Antibody; Anti-Aim2 Antibody Picoband; anti-AIM2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-AIM2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse Aim2 recombinant protein (Position: Q136-E354).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of RAW264.7 cells using anti-Aim2 antibody (AAA126025).Overlay histogram showing RAW264.7 cells stained with AAA126025 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Aim2 Antibody (AAA126025, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree 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.



WB (Western Blot)
Figure 1. Western blot analysis of Aim2 using anti-Aim2 antibody (AAA126025).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 (#AAA126025) at 0.5 ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-AIM2 antibody	Interferon-inducible protein AIM2,also known asabsent in melanoma 2or simplyAIM2,is a proteinthat in humans is encoded by theAIM2gene. It is mapped to 1q22. AIM2 is a member of theIFI16family. 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).
Product Categories/Family for anti-AIM2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	162461985
NCBI GeneID	383619
NCBI Accession #	NP_001013801.2
NCBI GenBank Nucleotide #	NM_001013779.2
UniProt Accession #	Q91VJ1
Molecular Weight	40,155 Da
NCBI Official Full Name	interferon-inducible protein AIM2
NCBI Official Synonym Full Names	absent in melanoma 2

NCBI Official Symbol	Aim2
NCBI Official Synonym Symbols	Gm1313; Ifi210
NCBI Protein Information	interferon-inducible protein AIM2
UniProt Protein Name	Interferon-inducible protein AIM2
UniProt Gene Name	Aim2
UniProt Synonym Gene Names	Gm1313; Ifi210; Ifi-210
UniProt Entry Name	AIM2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aim2-antibody-western-blot-flow-cytometry-elisa/126025>