

Datasheet for ABIN7599984
anti-AIM2 antibody (AA 136-354)



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Overview

Quantity:	100 µg
Target:	AIM2
Binding Specificity:	AA 136-354
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIM2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Aim2 Antibody Picoband®
Immunogen:	E.coli-derived mouse Aim2 recombinant protein (Position: Q136-E354).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Aim2 Antibody Picoband® (ABIN7599984). 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	AIM2
Alternative Name:	Aim2 (AIM2 Products)
Background:	Synonyms: Coagulation factor V, Activated protein C cofactor, Proaccelerin, labile factor, Coagulation factor V heavy chain, Coagulation factor V light chain, F5 Tissue Specificity: Plasma. Background: Interferon-inducible protein AIM2, also known as absent in melanoma 2 or simply AIM2, is a protein that in humans is encoded by the AIM2 gene. It is mapped to 1q22. AIM2 is a member of the IFI16 family. It plays a putative role in tumorigenic reversion and may control cell proliferation. Interferon-gamma induces 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 protein ASC (or Apoptosis-associated Speck-like protein containing a caspase activation and recruitment domain). ASC also contains a CARD domain (caspase activation and recruitment domain), that recruits procaspase-1 to the complex. This leads to the autoactivation of caspase-1, an enzyme that processes proinflammatory cytokines (IL-1β and IL-18).
Molecular Weight:	39 kDa
Gene ID:	383619
Pathways:	Activation of Innate immune Response , Positive Regulation of Endopeptidase Activity , Inflammasome

Application Details

Application Notes:	Western blot, 0.25-0.5 μg/mL, Mouse Flow Cytometry (Fixed), 1-3 μg/1x10⁶ cells, Mouse ELISA, 0.1-0.5 μg/mL, - 1. DeYoung KL, Ray ME, Su YA, Anzick SL, Johnstone RW, Trapani JA, Meltzer PS, Trent JM (Aug 1997). "Cloning a novel member of the human interferon-inducible gene family associated with control of tumorigenicity in a model of human melanoma". <i>Oncogene</i> 15 (4): 453-7. 2. "Entrez Gene: AIM2 absent in melanoma 2". 3. Woerner SM, Kloor M, Schwitalle Y, Youmans H, von Knebel Doeberitz M, Gebert J, Dihlmann S (2007). "The putative tumor suppressor AIM2 is frequently affected by different genetic alterations in microsatellite unstable colon
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Application Details

	cancers". Genes Chromosomes Cancer 46 (12): 1080-9.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	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.