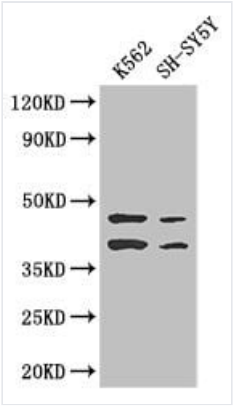
AIM2 Antibody – Rabbit Polyclonal

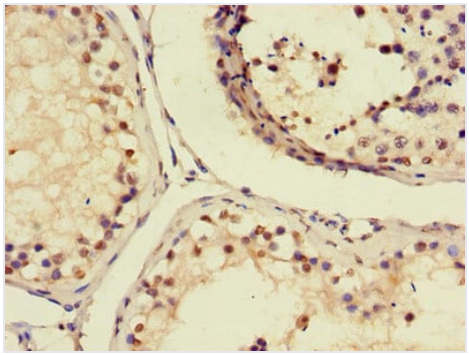
PRODUCT OVERVIEW

Product Name	AIM2, Polyclonal Antibody
Full Product Name	AIM2 Antibody
Product Gene Name	anti-AIM2 antibody
Product Synonym Names	Interferon-inducible protein AIM2; Absent in melanoma 2; AIM2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: AIM2 (MBS7047644) HRP Conjugated Antibody: AIM2 (MBS7047645)
Matching Pairs	Unconjugated Antibody: AIM2 (MBS7047644) FITC Conjugated Antibody: AIM2 (MBS7047646)
Matching Pairs	Unconjugated Antibody: AIM2 (MBS7047644) Biotin Conjugated Antibody: AIM2 (MBS7047647)
Molecular Weight	38,954 Da
OMIM	AF024714 mRNA
3D Structure	ModBase 3D Structure for O14862
Immunogen	Recombinant human Interferon-inducible protein AIM2 protein (81-326AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-137970 / sc-137971
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AIM2 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-AIM2 antibody	WB: 1: 1000-1: 5000 IHC: 1: 20-1: 200 IF: 1: 50-1: 200

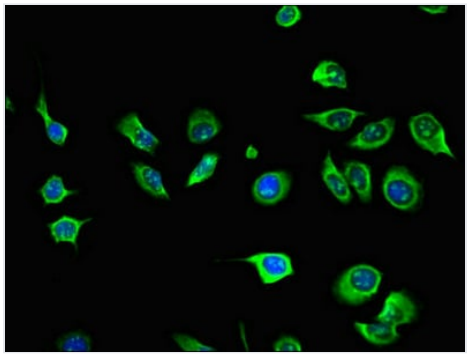
Related Product Information for anti-AIM2 antibody	Involved in innate immune response by recognizing cytosolic double-stranded DNA and inducing caspase-1-activating inflammasome formation in macrophages. Upon binding to DNA is thought to undergo oligomerization and to associate with PYCARD initiating the recruitment of caspase-1 precusrsor and processing of interleukin-1 beta and interleukin-18. Detects cytosolic dsDNA of viral and bacterial origin in a non-sequence-specific manner. Can also trigger PYCARD-dependent, caspase-1-independent cell death that involves caspase-8 (By similarity). Tumor suppressor which may act by repressing NF-kappa-B transcriptional activity.
Other Notes	Small volumes of anti-AIM2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AIM2 purchase	MBS7047644 is an antibody targeting AIM2. Also known as AIM2 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-AIM2 antibody
Western BlotPositive WB detected in:K562 whole cell lysate,SH-SY5Y whole cell lysateAll lanes: AIM2 antibody at 2.7ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 39 kDaObserved band size: 39,45 kDa



Immunohistochemistry (IHC) of anti-AIM2 antibody
Immunohistochemistry of paraffin-embedded human testis tissue using MBS7047644 at dilution of 1:100



Immunohistochemistry (IHC) of anti-AIM2 antibody
Immunofluorescent analysis of A549 cells using MBS7047644 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AIM2. It may not necessarily be applicable to this product.

NCBI GI #	4757734
NCBI GeneID	9447
NCBI Accession #	NP_004824.1
UniProt Primary Accession #	O14862
UniProt Secondary Accession #	Q5T3V9; Q96FG9; A8K7M7
UniProt Related Accession #	O14862
GenBank Nucleotide #	NM_004833.1

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	PYHIN4
UniProt Protein Name	Interferon-inducible protein AIM2
UniProt Synonym Protein Names	Absent in melanoma 2
Protein Family	Interferon-inducible protein
UniProt Gene Name	AIM2
UniProt Entry Name	AIM2_HUMAN
NCBI Protein Information	interferon-inducible protein AIM2
NCBI Summary for AIM2	AIM2 is a member of the IFI20X /IFI16 family. It plays a putative role in tumorigenic reversion and may control cell proliferation. Interferon-gamma induces expression of AIM2. [provided by RefSeq, Jul 2008]
UniProt Comments for AIM2	AIM2: a tumor suppressor which may act by repressing NF-kappa-B transcriptional activity. Induced by interferon gamma. Defects in AIM2 may be a cause of microsatellite unstable colon cancers. AIM2 and various NOD-like receptors form multiprotein complexes called inflammasomes, which mediate caspase-1-dependent processing of pro-IL-1beta. Protein type: Tumor suppressor Chromosomal Location of Human Ortholog: 1q22 Cellular Component: cytoplasm; cytosol Molecular Function: double-stranded DNA binding; identical protein binding; protein binding Biological Process: activation of innate immune response; activation of NF-kappaB transcription factor; immune response; inhibition of NF-kappaB transcription factor; interleukin-1 beta secretion; positive regulation of defense response to virus by host; positive regulation of interleukin-1 beta production; positive regulation of interleukin-1 beta secretion; positive regulation of protein oligomerization; tumor necrosis factor-mediated signaling pathway
Research Articles on AIM2	**1.** The findings reveal an age-dependent reduction of AIM2 expression and activation which may explain reduced cytokine responses to the cytosolic DNA mimic poly(dA:dT) in healthy elderly individuals. Reduced AIM2-mediated sensing with age may contribute to increased vulnerability to bacterial or viral infections in the elderly.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/aim2/7047644