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	PYHIN4
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total AIM2 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	38,954 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (159032275..159046647, complement). Location: 1q22
OMIM	604578
3D Structure	ModBase 3D Structure for O14862
Immunogen	Fusion protein corresponding to a region derived from internal residues of human absent in melanoma 2
Product Categories/Family for anti-AIM2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AIM2 antibody	Immunohistochemistry (IHC)
Application Notes for anti-AIM2 antibody	IHC: 1:50-1:200
Related Product Information for anti-AIM2 antibody	Interferon-inducible protein AIM2 (Absent in melanoma 2) is a 343 amino acid protein belonging to the HIN-200 family. Induced by IFN-gamma, AIM2 is thought to act as a tumor suppressor by repressing NFkappaB transcriptional activity. Localized to the nucleus, AIM2 contains one DAPIN domain and one HIN-200 domain. The DAPIN domain is composed mostly of alpha-helixes and is a protein-protein interaction domain capable of binding other DAPIN domains. The HIN-200 domain has been shown to bind directly to DNA, which, along with the binding of another protein ASC, results in the activation of Caspase-1
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	MBS8589603 is an antibody targeting AIM2. Also known as AIM2 Antibody. Reactive in Human. Host: Rabbit.

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; nucleus; cytosol Molecular Function: identical protein binding; protein binding; double-stranded DNA binding Biological Process: positive regulation of protein oligomerization; positive regulation of interleukin-1 beta production; tumor necrosis factor-mediated signaling pathway; apoptosis; inhibition of NF-kappaB transcription factor; innate immune response; immune response; interleukin-1 beta secretion; positive regulation of interleukin-1 beta secretion; inflammatory response; positive regulation of defense response to virus by host; activation of innate immune response; activation of NF-kappaB transcription factor
Research Articles on AIM2	**1.** Our data highlight the dynamics of epidermal AIM2 expression, showing Langerhans cell and melanocyte-restricted expression in normal epidermis but a pronounced induction in subpopulations of epidermal keratinocytes under inflammatory conditions.
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