AIM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AIM2, Polyclonal Antibody
Full Product Name	AIM2, NT (AIM2, Interferon-inducible protein AIM2, Absent in melanoma 2) (MaxLight 750)
Product Gene Name	anti-AIM2 antibody
Product Synonym Names	AIM2; Interferon-inducible protein AIM2; Absent in melanoma 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human AIM2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 4-32 in the N-terminal region of human AIM2.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-AIM2 antibody	Antibodies; Interferon
Applications Tested/Suitable for anti-AIM2 antibody	Western Blot (WB), Immunofluorescence (IF), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-AIM2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AIM2 antibody	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.
Product References and Citations for anti-AIM2 antibody	1. Patsos, G., et al. Int. J. Cancer 126(8):1838-1849(2010). 2. Patsos, G., et al. Glycobiology 19(7):726-734(2009). 3. Fernandes-Alnemri, T., et al. Nature 458(7237):509-513(2009). 4. Hornung, V., et al. Nature 458(7237):514-518(2009). 5. Woerner, S.M., et al. Genes Chromosomes Cancer 46(12):1080-1089(2007). 5. Cresswell, K.S., et al. Biochem. Biophys. Res. Commun. 326(2):417-424(2005).

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	MBS6272441 is an antibody targeting AIM2. Also known as AIM2, NT (AIM2, Interferon-inducible protein AIM2, Absent in melanoma 2) (MaxLight 750). 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
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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