AIM2 Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	Aim2, Polyclonal Antibody
Full Product Name	Goat anti-Aim2 (rodent) Antibody
Product Gene Name	anti-Aim2 antibody
Product Synonym Names	Aim2; absent in melanoma 2; Gm1313; Ifi210; ifi-210; interferon-inducible protein 210; interferon-inducible protein AIM2; interferon-inducible protein p210; Aim2 (rodent)
Immunogen Sequence	DHITEEELKR FKY
Clonality	Polyclonal
Host	Goat
Species Reactivity	Expected from sequence similarity: Mouse, Rat
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0. 02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	Aim2 peptide (MBS428471) is used for blocking the activity of Aim2 antibody (MBS423445)
Molecular Weight	40,155 Da
Immunogen	Peptide with sequence C-DHITEEELKRFKY, from the internal region (near N Terminus) of the protein sequence according to NP_001013801.2.
Epitope	Internal region (near N Terminus)
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-Aim2 antibody	Peptide ELISA (EIA)
Application Notes for anti-Aim2 antibody	Peptide ELISA: Antibody detection limit dilution 1: 64000. Western Blot: Preliminary experiments gave an approx 75kDa band in Mouse and Rat Thymus lysates after 1ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 40.2kDa according to NP_001013801.2. The 75kDa band was successfully blocked by incubation with the immunizing peptide.
Related Product Information for anti-Aim2 antibody	MBS423445 is an antibody targeting Aim2. Also known as Goat anti-Aim2 (rodent) Antibody. Reactive in Expected from sequence similarity: Mouse, Rat. Host: Goat.
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Aim2. It may not necessarily be applicable to this product.

NCBI GI #	162461985
NCBI GeneID	383619

NCBI Accession #	NP_001013801.2
UniProt Related Accession #	Q91VJ1
GenBank Nucleotide #	NM_001013779.2
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
UniProt Protein Name	Interferon-inducible protein AIM2
UniProt Synonym Protein Names	Interferon-inducible protein 210; Ifi-210; Interferon-inducible protein p210
Protein Family	Interferon-inducible protein
UniProt Gene Name	Aim2
UniProt Synonym Gene Names	Gm1313; Ifi210; Ifi-210
UniProt Entry Name	AIM2_MOUSE
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 Cellular Component: cytoplasm; nucleus Molecular Function: DNA binding; double-stranded DNA binding; identical protein binding; protein binding Biological Process: activation of innate immune response; activation of NF-kappaB transcription factor; apoptosis; immune system process; inflammatory response; inhibition of NF-kappaB transcription factor; innate immune response; 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.** A tissue-specific role for the AIM2 inflammasome as a sensor for endogenous DNA species in the course of a ligand-dependent autoinflammatory condition.
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