

For Research Use Only

AIM2 Monoclonal antibody

Catalog Number: 66902-1-Ig

Featured Product

19 Publications



Basic Information

Catalog Number:

66902-1-Ig

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG14607

GenBank Accession Number:

BC010940

GeneID (NCBI):

9447

UNIPROT ID:

O14862

Full Name:

absent in melanoma 2

Calculated MW:

343 aa, 39 kDa

Observed MW:

37-39 and 53 kDa

Purification Method:

Protein G purification

CloneNo.:

3E12A8

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat, rabbit

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with *TE buffer pH 9.0*; (*) Alternatively, antigen retrieval may be performed with *citrate buffer pH 6.0*

Positive Controls:

WB : RAW 264.7 cells, rabbit spleen tissue, human heart tissue, Sp2/O cells

IHC : human urothelial carcinoma tissue, rat small intestine tissue

Background Information

Absent in melanoma 2 (AIM2) is a sensor of cytosolic DNA that is responsible for activation of the inflammasome and host immune responses to DNA viruses and intracellular bacteria [PMID:22695634]. Upon binding to DNA, it is thought to undergo oligomerization and to associate with PYCARD initiating the recruitment of caspase-1 precursor and processing of interleukin-1 beta and interleukin-18. Otherwise, it functions as a tumor suppressor which may act by repressing NF-kappa-B transcriptional activity [PMID:16432157,20566831]. 66902-1-Ig antibody detects the 37-39 and 53 kDa protein in SDS-PAGE similar to the paper published. [PMID: 28809949]

Notable Publications

Author	Pubmed ID	Journal	Application
Ruby E Dawson	34489308	Gut	CoIP
Hao Liu	36245295	EMBO J	WB,IF
Qingyu Liang	34815793	Theranostics	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

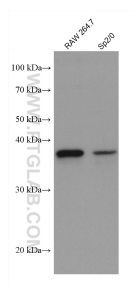
T: 4006900926

E: Proteintech-CN@ptglab.com

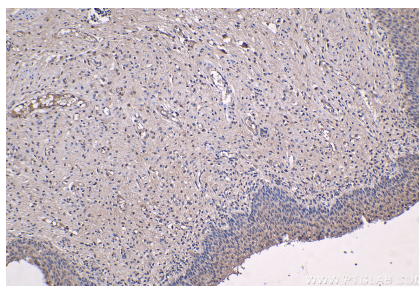
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66902-1-Ig (AIM2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 66902-1-Ig (AIM2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).