

AIM2 Monoclonal antibody

Catalog Number: 66902-1-Ig **8 Publications**

Basic Information

Catalog Number: 66902-1-Ig	GenBank Accession Number: BC010940	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 9447	CloneNo.: 3E12A8
Source: Mouse	UNIPROT ID: O14862	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: absent in melanoma 2	
Immunogen Catalog Number: AG14607	Calculated MW: 343 aa, 39 kDa Observed MW: 37-39 and 53 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: CoIP, IF, WB	WB : RAW 264.7 cells, rabbit spleen tissue, human heart tissue, Sp2/O cells
Species Specificity: Human, mouse, rat, rabbit	IHC : human urothelial carcinoma tissue, rat small intestine tissue
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	

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 pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

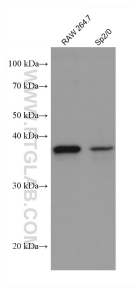
T: 4006900926

E: Proteintech-CN@ptglab.com

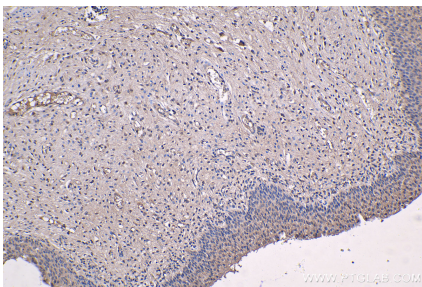
W: ptgcn.com

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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).