

For Research Use Only

AIM2 Monoclonal antibody

Catalog Number: 66902-1-Ig

Featured Product

15 Publications



Basic Information

Catalog Number: 66902-1-Ig	GenBank Accession Number: BC010940	Purification Method: Protein A purification
Size: 150ul, Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	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: WB, IHC, ELISA	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
Cited Applications: WB, 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	

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

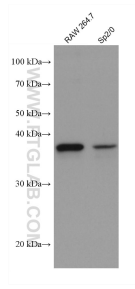
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

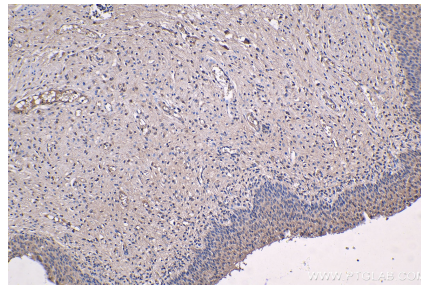
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).