

For Research Use Only

# AIM2 Monoclonal antibody

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



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>66902-1-Ig   | <b>GenBank Accession Number:</b><br>BC010940 | <b>Purification Method:</b><br>Protein A purification                 |
| <b>Size:</b><br>150ul , Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>9447                | <b>CloneNo.:</b><br>3E12A8  |
| <b>Source:</b><br>Mouse  | <b>Full Name:</b><br>absent in melanoma 2    | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000<br>IHC 1:500-1:2000 |
| <b>Isotype:</b><br>IgG1  | <b>Calculated MW:</b><br>343 aa, 39 kDa      |   |
| <b>Immunogen Catalog Number:</b><br>AG14607  | <b>Observed MW:</b><br>37-39 and 53 kDa      |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>IHC, WB, ELISA  | <b>Positive Controls:</b>  |
| <b>Cited Applications:</b><br>CoIP, IF, WB   | <b>WB :</b> RAW 264.7 cells, rabbit spleen tissue, human heart tissue, Sp2/0 cells |
| <b>Species Specificity:</b><br>Human, mouse, rat, rabbit   | <b>IHC :</b> human urothelial carcinoma tissue, rat small intestine tissue         |
| <b>Cited Species:</b><br>human, mouse  |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## 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

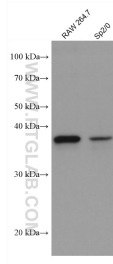
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

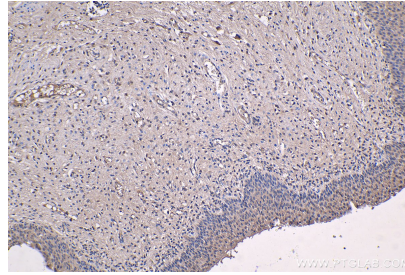
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66902-1-g (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-g (AIM2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).