

For Research Use Only

# AIM2 Polyclonal antibody

Catalog Number: 20590-1-AP

Featured Product

21 Publications



## Basic Information

### Catalog Number:

20590-1-AP

### Size:

150ul, Concentration: 750 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14520

### GenBank Accession Number:

BC010940

### GeneID (NCBI):

9447

### UNIPROT ID:

O14862

### Full Name:

absent in melanoma 2

### Calculated MW:

343 aa, 39 kDa

### Observed MW:

39-42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, 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 : A431 cells, HeLa cells, Jurkat cells, SH-SY5Y cells, mouse testis tissue, rat testis tissue, MCF-7 cells, A549 cells, COLO 320 cells, HepG2 cells, Raji cells

IHC : human testis 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].

## Notable Publications

Author	Pubmed ID	Journal	Application
Liangmin Fu	36248876	Front Immunol	WB,IHC
JiangFan Yu	36248980	Front Oncol	WB
Saleela M Ruwanpura	36037355	Proc Natl Acad Sci U S A	WB,IHC

## 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

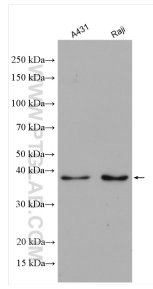
For technical support and original validation data for this product please contact:

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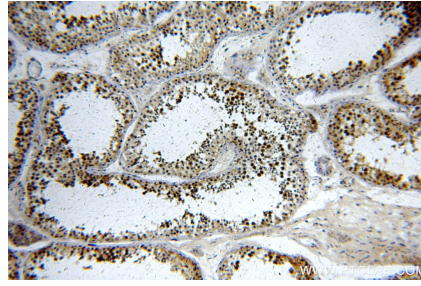
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

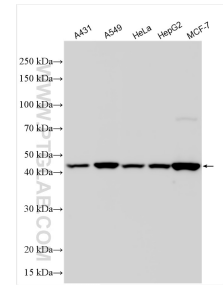
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20590-1-AP (AIM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 20590-1-AP (AIM2 antibody) at dilution of 1:100 (under 10x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 20590-1-AP (AIM2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.