

For Research Use Only

AIM2 Polyclonal antibody

Catalog Number: 20590-1-AP

Featured Product

30 Publications



Basic Information

Catalog Number:

20590-1-AP

Size:

750 µg/ml

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

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, zebrafish

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,

IF/ICC : MCF-7 cells,

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

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

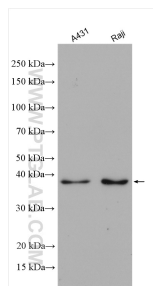
T: 4006900926

E: Proteintech-CN@ptglab.com

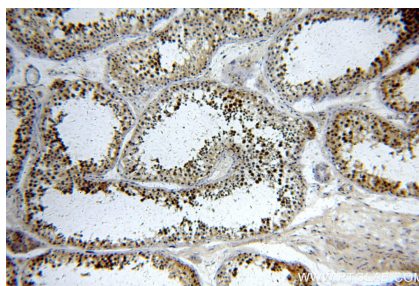
W: ptgcn.com

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

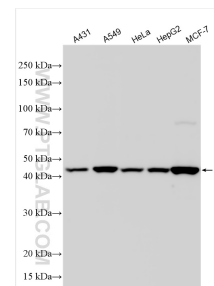
Selected Validation Data



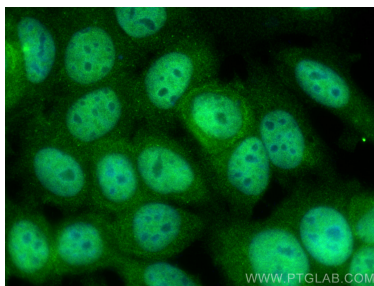
Various lysates were subjected to SDS PAGE followed by western blot with 20590-1-AP (AIM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using AIM2 antibody (20590-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).