

For Research Use Only

AIM2 Polyclonal antibody

Catalog Number: 20590-1-AP

Featured Product

30 Publications



Basic Information

Catalog Number:

20590-1-AP

Size:

150ul, Concentration: 750 ug/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

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human, mouse, rat, zebrafish

Positive Controls:

WB : A431 cells, HeLa cells, Raji cells, A549 cells, HepG2 cells, MCF-7 cells

IHC : human testis tissue,

IF/ICC : MCF-7 cells,

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). It has been reported that AIM2 protein levels are significantly elevated in alveolar macrophages of patients with IPF and bleomycin-treated mice (PMID:38078661). AIM2 inflammasome was also significantly activated, which was also confirmed in Aβ-treated microglial cells (PMID:34861878)

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

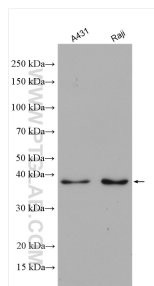
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

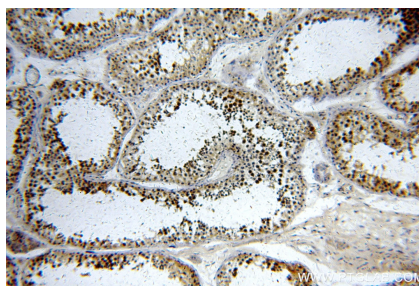
E: proteintech@ptglab.com
W: ptglab.com

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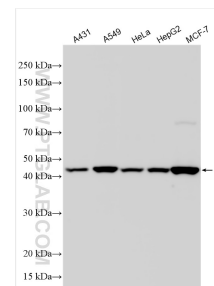
Selected Validation Data



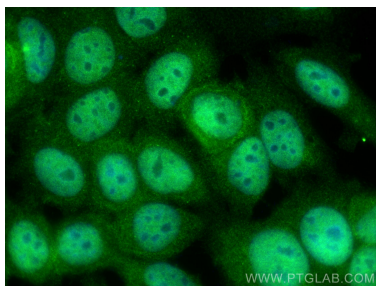
Various lysates were subjected to SDS PAGE followed by western blot with 20590-1-AP (AIM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).