**AIM2**

Polyclonal ANTIBODY

Catalog Number: 20590-1-AP

5 Publications

### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>GenBank Accession Number</th>
<th>Recommended Dilutions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GeneID (NCBI): 9447</td>
<td>IHC: 1:200-1:200</td>
</tr>
</tbody>
</table>

**Size:**

86 μg/150 μl

**Source:**

Rabbit

**Isotype:**

IgG

**Purification Method:**

Antigen affinity purification

**Immunogen Catalog Number:**

AG14520

**GenBank Accession Number:**

BC010940

**GeneID (NCBI):**

9447

**Observed MW:**

39-45 kDa

**Calculated MW:**

343aa, 39 kDa

### Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note:** suggested antigen retrieval with TE buffer pH 9.6; (*) 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].

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PMID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qingling Guo</td>
<td>26919579</td>
<td>Front Immunol</td>
<td>IHC:IF</td>
</tr>
<tr>
<td>Yi Liao</td>
<td>30846986</td>
<td>Front Immunol</td>
<td>WB</td>
</tr>
<tr>
<td>G-Q Hu</td>
<td>26839050</td>
<td>Mucosal Immunol</td>
<td>WB</td>
</tr>
</tbody>
</table>

### 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: 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.
K-562 cells were subjected to SDS-PAGE followed by western blot with 20590-1-AP/AIM2 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

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