

For Research Use Only

# ASC/TMS1 Polyclonal antibody

Catalog Number: 10500-1-AP

Featured Product

282 Publications



## Basic Information

### Catalog Number:

10500-1-AP

### Concentration:

600 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0774

### GenBank Accession Number:

BC004470

### GeneID (NCBI):

29108

### UNIPROT ID:

Q9ULZ3

### Full Name:

PYD and CARD domain containing

### Calculated MW:

25 kDa

### Observed MW:

22-25 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:1000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ELISA

### Species Specificity:

human

### Cited Species:

human, pig, canine, bovine

**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 : HL-60 cells, A549 cells, Raji cells, U-937 cells, THP-1 cells

IP : HL-60 cells,

IHC : human lung cancer tissue,

## Background Information

PYCARD, also known as ASC or TMS1, is a 195 amino acid protein containing an N-terminal Pyrin-like domain (PYD) and an 87 residue C-terminal Caspase-associated recruitment domain (CARD). It promotes caspase-mediated apoptosis which is mediated predominantly through the activation of caspase-9.

## Notable Publications

| Author        | Pubmed ID | Journal         | Application |
|---------------|-----------|-----------------|-------------|
| JiangFan Yu   | 36248980  | Front Oncol     | WB          |
| Sheng-Li Ming | 33072119  | Front Immunol   | WB          |
| Pengxiao Chen | 34603026  | Front Pharmacol | WB,IF       |

## 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

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

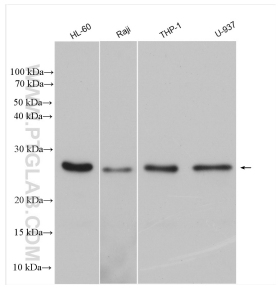
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

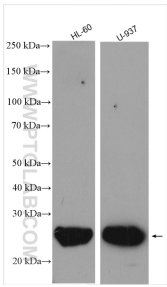
W: [ptgcn.com](http://ptgcn.com)

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

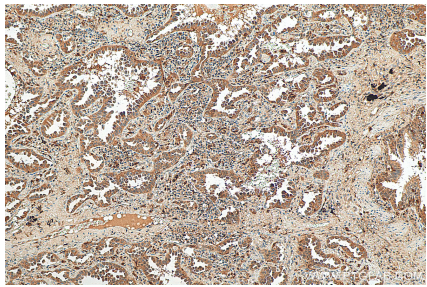
Selected Validation Data



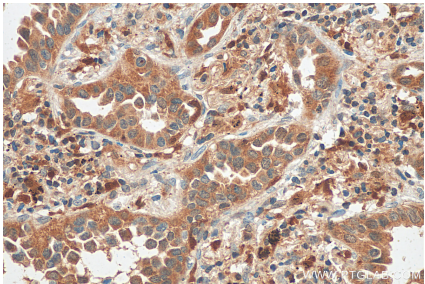
Various lysates were subjected to SDS PAGE followed by western blot with 10500-1-AP (ASC/TMS1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



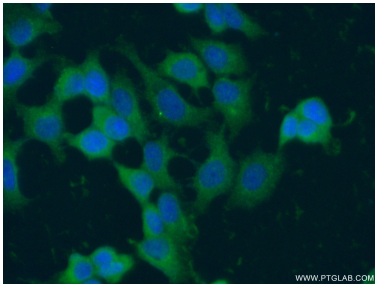
Various lysates were subjected to SDS PAGE followed by western blot with 10500-1-AP (ASC/TMS1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



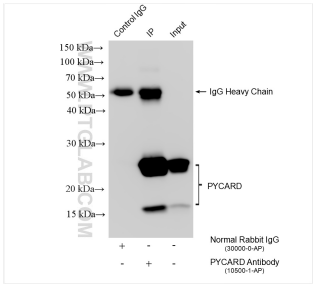
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10500-1-AP (ASC/TMS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



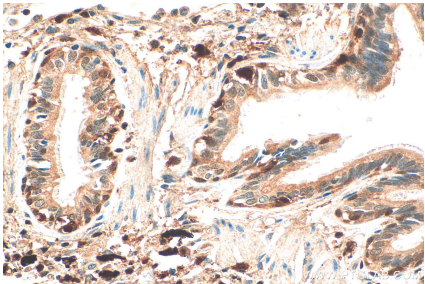
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10500-1-AP (ASC/TMS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 10500-1-AP (TMS1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-ASC/TMS1 (IP:10500-1-AP, 4ug; Detection:10500-1-AP 1:10000) with HL-60 cells lysate 2240 ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10500-1-AP (ASC/TMS1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).