

## Basic Information

Product Name	Anti-ASC/TMS1/PYCARD Antibody	
Gene Name	PYCARD	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human ASC/TMS1/PYCARD recombinant protein (Position: M1-S195).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	22 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

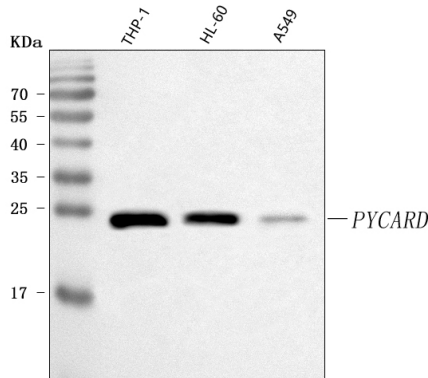
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

PYCARD, often referred to as ASC (Apoptosis-associated speck-like protein containing a CARD), is a protein that in humans is encoded by the PYCARD gene. This gene encodes an adaptor protein that is composed of two protein-protein interaction domains: a N-terminal PYRIN-PAAD-DAPIN domain (PYD) and a C-terminal caspase-recruitment domain (CARD). The PYD and CARD domains are members of the six-helix bundle death domain-fold superfamily that mediates assembly of large signaling complexes in the inflammatory and apoptotic signaling pathways via the activation of caspase. In normal cells, this protein is localized to the cytoplasm; however, in cells undergoing apoptosis, it forms ball-like aggregates near the nuclear periphery. Two transcript variants encoding different isoforms have been found for this gene.

## Selected Validation Data



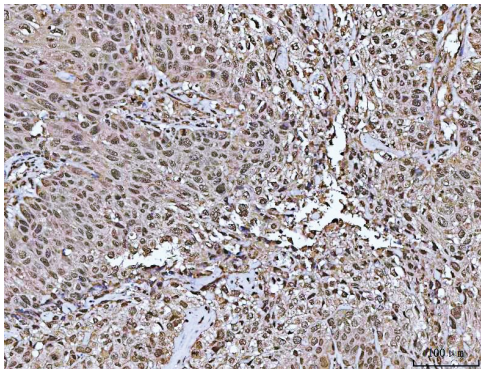
Western blot analysis of anti-ASC/TMS1/PYCARD antibody (A00362-6). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human THP-1 whole cell lysates,

Lane 2: human HL-60 whole cell lysates,

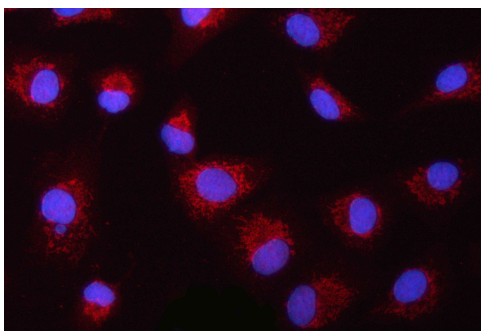
Lane 3: human A549 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ASC/TMS1/PYCARD antigen affinity purified polyclonal antibody (A00362-6) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ASC/TMS1/PYCARD at approximately 24 kDa. The expected band size for ASC/TMS1/PYCARD is at 22 kDa.



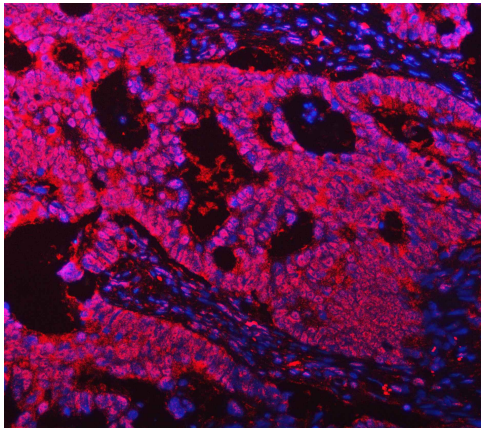
IHC analysis of ASC/TMS1/PYCARD using anti-ASC/TMS1/PYCARD antibody (A00362-6).

ASC/TMS1/PYCARD was detected in a paraffin-embedded section of human urothelial carcinoma with squamous differentiation tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



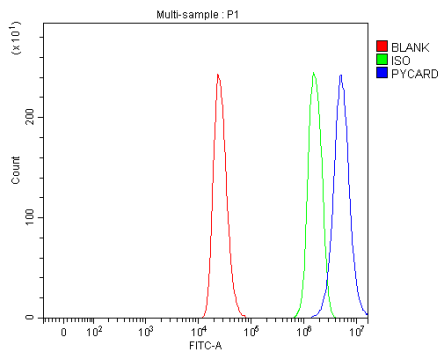
IF analysis of ASC/TMS1/PYCARD using anti-ASC/TMS1/PYCARD antibody (A00362-6).

ASC/TMS1/PYCARD was detected in an immunocytochemical section of A549 cells. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red) (Catalog # BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



IF analysis of ASC/TMS1/PYCARD using anti-ASC/TMS1/PYCARD antibody (A00362-6).

ASC/TMS1/PYCARD was detected in a paraffin-embedded section of human intestinal cancer tissue. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of THP-1 cells using anti-ASC/TMS1/PYCARD antibody (A00362-6).

Overlay histogram showing THP-1 cells stained with A00362-6 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ASC/TMS1/PYCARD Antibody (A00362-6, 1:100). DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.