

## Product datasheet for **AP06792PU-M**

### **TMS1 (PYCARD) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminus of Human TMS1.
Specificity:	This antibody detects endogenous levels of ASC protein. (region surrounding Glu13)
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE); 50% glycerol Preservative: 0.02% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~22 kDa
Gene Name:	PYD and CARD domain containing
Database Link:	<a href="#">Entrez Gene 29108 Human</a> <a href="#">Q9ULZ3</a>



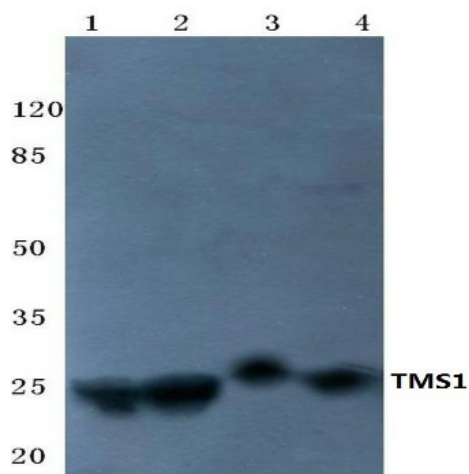
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**Background:**

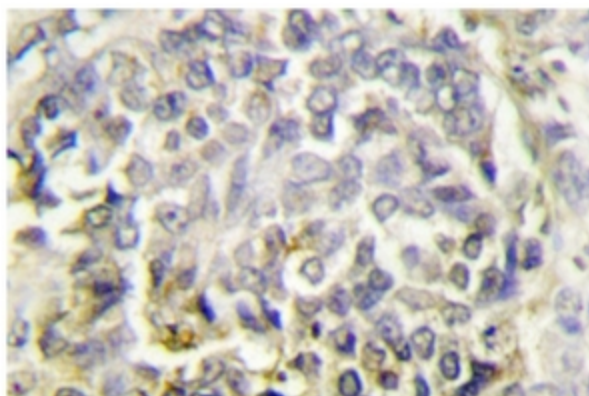
Caspase-associated recruitment domains (CARDs) mediate the interaction between adaptor proteins such as APAF1 and the proform of caspases (e.g. CASP9) participating in apoptosis. ASC (apoptosis-associated speck-like protein containing a CARD, also known as TMS1 or PYCARD) is a member of the CARD-containing adaptor protein family. ASC is a 195 amino acid protein that contains an N-terminal pyrin-like domain (PYD) and an 87 residue C-terminal CARD. This motif is characteristic of numerous proteins involved in apoptotic signaling. Fluorescence microscopy demonstrates a ring-like expression in some transfected cells. Immunofluorescence microscopy demonstrates that induction of apoptosis causes a CARD-dependent shift from diffuse cytoplasmic expression to punctate or spherical perinuclear aggregates. Western blot analysis shows expression of 22 kDa ASC in leukemia and melanoma cell lines. ASC exhibits intriguing behavior by forming an aggregate and appearing as a speck during apoptosis induced by retinoic acid and other anti-tumor drugs. The ASC gene maps to human chromosome 16p12-p11.2.

**Synonyms:**

TMS1

**Product images:**


Western blot analysis of ASC Antibody at 1/500 dilution in: Lane 1: DLD whole cell lysate. Lane 2: HEK293T whole cell lysate. Lane 3: Mouse brain Tissue lysate. Lane 4: Rat brain Tissue lysate.



Immunohistochemistry analysis of ASC Antibody in paraffin-embedded human lung carcinoma tissue.