

## Product datasheet for **CF800081**

### **TMS1 (PYCARD) Mouse Monoclonal Antibody [Clone ID: OTI3E9]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3E9
<b>Applications:</b>	FC, IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:150, FLOW 1:100
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human PYCARD (NP_037390) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	21.4 kDa
<b>Gene Name:</b>	PYD and CARD domain containing
<b>Database Link:</b>	<a href="#">NP_037390</a> <a href="#">Entrez Gene 29108 Human</a> <a href="#">Q9ULZ3</a>



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**Background:**

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. [provided by RefSeq]

**Synonyms:**

ASC; CARD5; TMS; TMS-1; TMS1

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway

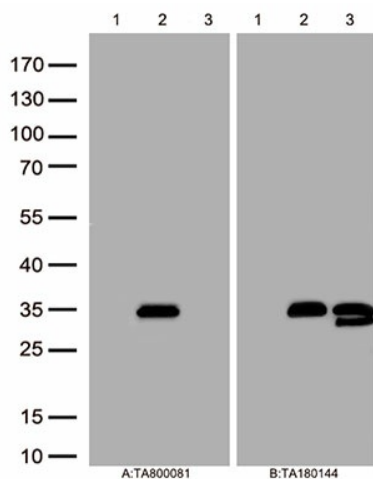
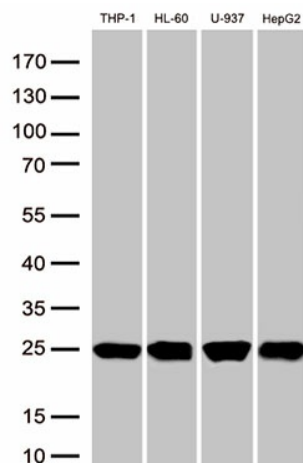
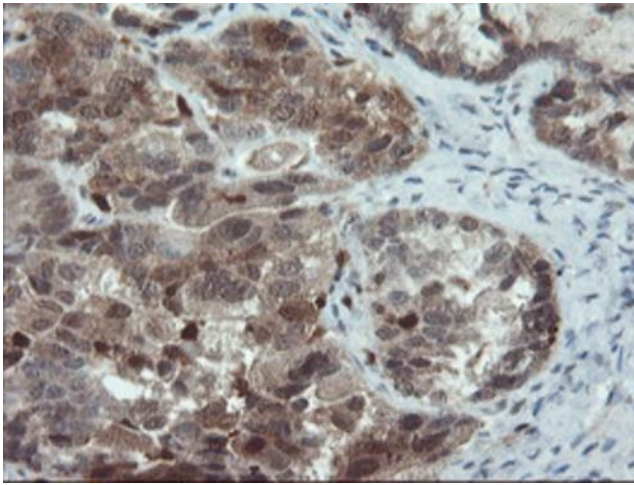
**Product images:**


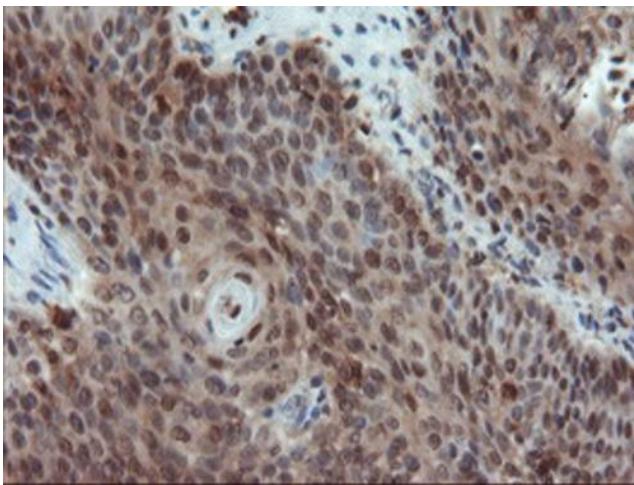
Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human PYCARD plasmid ([RC215592], lane 2), mouse PYCARD plasmid ([MR201872], lane 3) using anti-PYCARD antibody [TA800081] (1:1000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



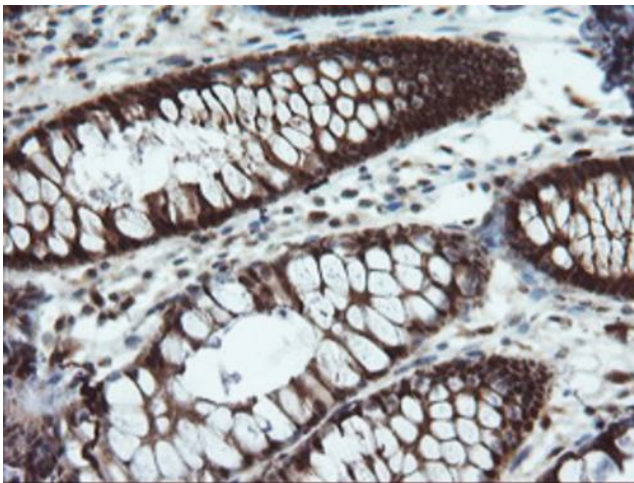
Western blot analysis of extracts (50ug per lane) from 4 cell lines lysates by using anti-PYCARD monoclonal antibody([TA800081], 1:1000)



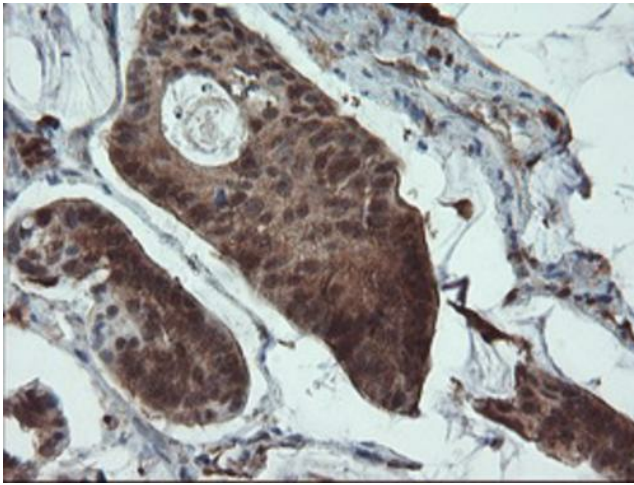
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PYCARD mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA800081])



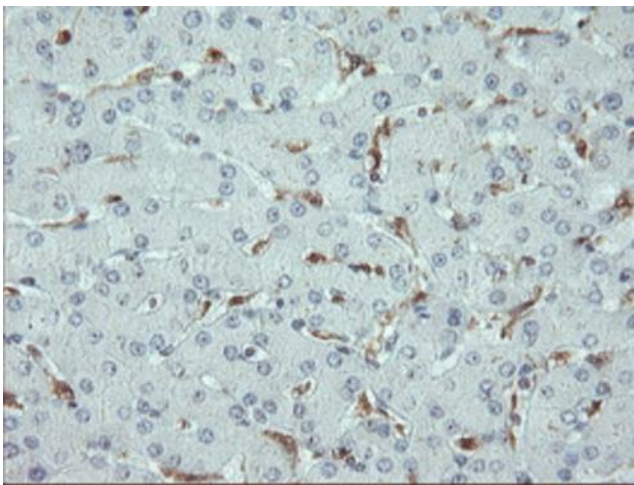
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-PYCARD mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA800081])



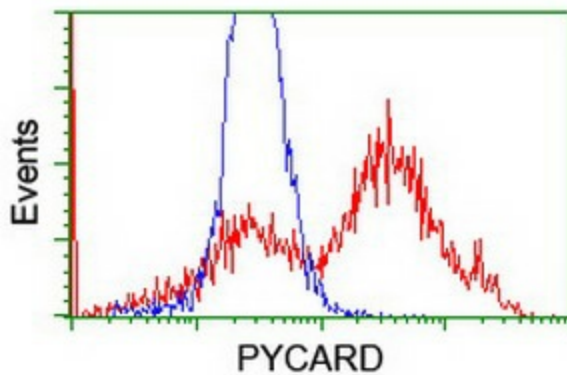
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-PYCARD mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA800081])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-PYCARD mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA800081])



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PYCARD mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA800081])



HEK293T cells transfected with either [RC215592] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PYCARD antibody ([TA800081]), and then analyzed by flow cytometry.