

Rabbit anti-Mouse, Rat TMS1/ASC/Pycard Polyclonal Antibody | anti-Pycard antibody

Anti-TMS1/ASC/Pycard Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125544	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TMS1/ASC/Pycard; Polyclonal Antibody; Anti-TMS1/ASC/Pycard Antibody; Pycard; Asc; Apoptosis-associated speck-like protein containing a CARD; mASC; PYD and CARD domain-containing protein
; PYD and CARD domain containing; anti-Pycard antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TMS1/ASC/PYCARD detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-Pycard antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse TMS1/ASC/PYCARD recombinant protein (Position: R3-S193).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of RAW264.7 cells using anti-TMS1/ASC/PYCARD antibody (AAA125544). Overlay histogram showing RAW264.7 cells stained with AAA125544 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TMS1/ASC/PYCARD Antibody (AAA125544, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of TMS1/ASC/PYCARD using anti-TMS1/ASC/PYCARD antibody (AAA125544). TMS1/ASC/PYCARD was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-TMS1/ASC/PYCARD Antibody (AAA125544) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of TMS1/ASC/PYCARD using anti-TMS1/ASC/PYCARD antibody (AAA125544). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat lung tissue lysates Lane 2: rat spleen tissue lysates Lane 3: rat thymus tissue lysates Lane 4: mouse lung tissue lysates Lane 5: mouse spleen tissue lysates Lane 6: mouse thymus tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-TMS1/ASC/PYCARD antigen affinity purified polyclonal antibody (Catalog # AAA125544) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TMS1/ASC/PYCARD at approximately 22KD. The expected band size for TMS1/ASC/PYCARD is at 22KD

ADDITIONAL INFORMATION

Related Product Information for anti-Pycard antibody	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.
References	1. Agostini, L., Martinon, F., Burns, K., McDermott, M. F., Hawkins, P. N., Tschopp, J. NALP3 forms an IL-1-beta-processing inflammasome with increased activity in Muckle-Wells autoinflammatory disorder. Immunity 20: 319-325, 2004. 2. Cai, X., Chen, J., Xu, H., Liu, S., Jiang, Q. -X., Halfmann, R., Chen, Z. J. Prion-like polymerization underlies signal transduction in antiviral immune defense and inflammasome activation. Cell 156: 1207-1222, 2014. 3. Conway, K. E., McConnell, B. B., Bowring, C. E., Donald, C. D., Warren, S. T., Vertino, P. M. TMS1, a novel proapoptotic caspase recruitment domain protein, is a target of methylation-induced gene silencing in human breast cancers. Cancer Res. 60: 6236-6242, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	165377185
NCBI GeneID	66824
NCBI Accession #	NP_075747.3
NCBI GenBank Nucleotide #	NM_023258.4
UniProt Accession #	Q9EPB4; Q9D2W9
Molecular Weight	21,459 Da
NCBI Official Full Name	apoptosis-associated speck-like protein containing a CARD
NCBI Official Synonym Full Names	PYD and CARD domain containing
NCBI Official Symbol	Pycard
NCBI Official Synonym Symbols	Asc; TNS1; masc; CARD5; TMS-1; 9130417A21Rik
NCBI Protein Information	apoptosis-associated speck-like protein containing a CARD
UniProt Protein Name	Apoptosis-associated speck-like protein containing a CARD

UniProt Gene Name	Pycard
UniProt Synonym Gene Names	Asc; mASC
UniProt Entry Name	ASC_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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