BOSTER BIOLOGICAL TECHNOLOGY
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Anti-TMS1/ASC/Pycard Antibody Picoband®

Catalog Number: A00362-4

About Pycard

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.

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Overview

Product Name	Anti-TMS1/ASC/Pycard Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-TMS1/ASC/Pycard Antibody Picoband® catalog # A00362-4. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9EPB4

Technical Details

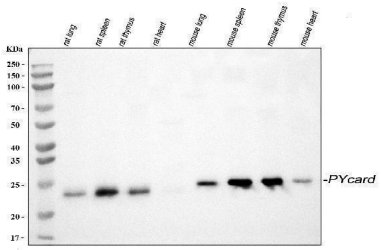
Immunogen	E.coli-derived mouse TMS1/ASC/PYCARD recombinant protein (Position: R3-S193).

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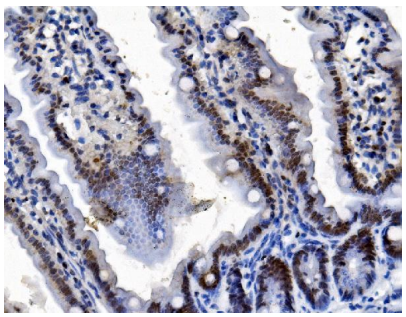
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Mouse ELISA, 0.1-0.5ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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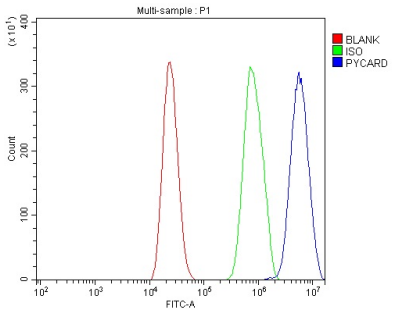
Anti-TMS1/ASC/Pycard Antibody Picoband® (A00362-4) Images



Western blot analysis of TMS1/ASC/PYCARD using anti-TMS1/ASC/PYCARD antibody (A00362-4). 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 30 ug 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: rat heart tissue lysates, Lane 5: mouse lung tissue lysates, Lane 6: mouse spleen tissue lysates, Lane 7: mouse thymus tissue lysates, Lane 8: mouse heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 # A00362-4) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TMS1/ASC/PYCARD at approximately 22-25 kDa. The expected band size for TMS1/ASC/PYCARD is at 21 kDa.



IHC analysis of TMS1/ASC/PYCARD using anti-TMS1/ASC/PYCARD antibody (A00362-4). 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 2ug/ml rabbit anti-TMS1/ASC/PYCARD Antibody (A00362-4) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Flow Cytometry analysis of RAW264.7 cells using anti-TMS1/ASC/PYCARD antibody (A00362-4). Overlay histogram showing RAW264.7 cells stained with A00362-4 (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-TMS1/ASC/PYCARD Antibody (A00362-4, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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1 Publications Citing This Product

1. PubMed ID: 38851101, Xue-Xue Zhu, Xin-Yu Meng, Ao-yuan Zhang, Chen-Yang Zhao, Chang Chang, Tian-Xiao Chen, Yan- Bo Huang, Jin-Peng Xu, Xiao Fu, Wei-Wei Cai, Bao Hou, Bin Du, Guan-Li Zheng, Ji-Ru Zhang, Qing- Bo Lu, Ning Bai, Zhi-Jun Han, Neng Bao, Li-Ying Qiu, Hai-Jian Sun 2024-05-31 10.1016/j.phymed.2024.155771 Vaccarin alleviates septic cardiomyopathy by potentiating NLRP3 palmitoylation and inactivation

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