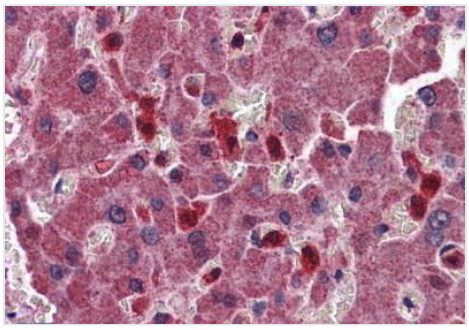
PYCARD Antibody – Goat Polyclonal

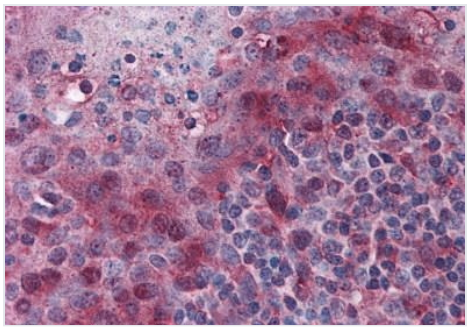
PRODUCT OVERVIEW

Product Name	PYCARD, Polyclonal Antibody
Full Product Name	PYCARD, CT (ASC, Apoptosis-associated Speck-like Protein Containing a CARD, hASC, Caspase Recruitment Domain-containing Protein 5, PYD and CARD Domain-containing Protein, Target of Methylation-induced Silencing 1, CARD5, TMS1)
Product Gene Name	anti-PYCARD antibody
Product Synonym Names	Anti -PYCARD, CT (ASC, Apoptosis-associated Speck-like Protein Containing a CARD, hASC, Caspase Recruitment Domain-containing Protein 5, PYD and CARD Domain-containing Protein, Target of Methylation-induced Silencing 1, CARD5, TMS1)
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human
Form/Format	Supplied as a liquid in Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human PYCARD.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	21,627 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (31212807..31214097, complement). Location: 16p11.2
OMIM	606838
3D Structure	ModBase 3D Structure for Q9ULZ3
Immunogen	Synthetic peptide C-RESQSYLVEDLERS from the C-terminus of human PYCARD.
Product Categories/Family for anti-PYCARD antibody	Antibodies; Abs to Apoptosis; Caspase
Applications Tested/Suitable for anti-PYCARD antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PYCARD antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: ELISA: 1:32,000 Western Blot: 1-3ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 2.5ug/ml
Related Product Information for anti-PYCARD antibody	Apoptosis is regulated by death domain (DD) and/or caspase recruitment domain (CARD) containing molecules and a caspase family of proteases. CARD containing cell death regulators include RAIDD, RICK, BCL10, Apaf-1, ARC, caspase-9, and caspase-2. A novel CARD domain containing protein was recently identified in human and mouse and designated ASC and TMS1. Ectopic expression of ASC/TMS1 induced apoptosis through activation of caspase-9 and inhibited the survival of human breast cancer cells. Overexpression of ASC/TMS1 induced DNA fragmentation. ASC/TMS1 is expressed in a variety of human and mouse tissues.
Other Notes	Small volumes of anti-PYCARD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PYCARD purchase	MBS645543 is an antibody targeting PYCARD. Also known as PYCARD, CT (ASC, Apoptosis-associated Speck-like Protein Containing a CARD, hASC, Caspase Recruitment Domain-containing Protein 5, PYD and CARD Domain-containing Protein, Target of Methylation-induced Silencing 1, CARD5, TMS1). Reactive in Human. Host: Goat.



Immunohistochemistry (IHC) of anti-PYCARD antibody
Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunohistochemistry (IHC) of anti-PYCARD antibody
Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)



Testing Data of anti-PYCARD antibody
Staining (1ug/ml) of HeLa lysate (RIPA buffer, 35ug total protein per lane). Primary incubated for 1 hour. Detected using chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PYCARD. It may not necessarily be applicable to this product.

NCBI GI #	11096299
NCBI GeneID	29108
NCBI Accession #	AAG30286.1
UniProt Primary Accession #	Q9ULZ3
UniProt Secondary Accession #	Q96D12; Q9BSZ5; Q9HBD0; Q9NXJ8
UniProt Related Accession #	Q9ULZ3
NCBI Official Full Name	PYCARD
NCBI Official Synonym Full Names	PYD and CARD domain containing
NCBI Official Symbol	PYCARD
NCBI Official Synonym Symbols	ASC; TMS; TMS1; CARD5; TMS-1
UniProt Protein Name	Apoptosis-associated speck-like protein containing a CARD
UniProt Synonym Protein Names	Caspase recruitment domain-containing protein 5; PYD and CARD domain-containing protein; Target of methylation-induced silencing 1
Protein Family	Apoptosis-associated speck-like protein

UniProt Gene Name	PYCARD
UniProt Synonym Gene Names	ASC; CARD5; TMS1; hASC
UniProt Entry Name	ASC_HUMAN
NCBI Protein Information	apoptosis-associated speck-like protein containing a CARD; target of methylation-induced silencing 1; caspase recruitment domain-containing protein 5
NCBI Summary for PYCARD	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, Jul 2008]
UniProt Comments for PYCARD	PYCARD: Promotes caspase-mediated apoptosis. This proapoptotic activity is mediated predominantly through the activation of caspase-9. May be a component of the inflammasome, a protein complex which also includes NALP2, CARD8 and CASP1 and whose function would be the activation of proinflammatory caspases. Forms complexes with other DAPIN domain-containing proteins. Interacts with CIAS1/PYPAF1 and PYDC1. Widely expressed at low levels. Detected in peripheral blood leukocytes, lung, small intestine, spleen, thymus, colon and at lower levels in placenta, liver and kidney. Very low expression in skeletal muscle, heart and brain. Detected in the leukemia cell lines HL-60 and U-937, but not in Jurkat T- cell lymphoma and Daudi Burkitt's lymphoma. Detected in the melanoma cell line WM35, but not in WM793. Not detected in HeLa cervical carcinoma cells and MOLT-4 lymphocytic leukemia cells. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold; Tumor suppressor Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cell soma; mitochondrion; endoplasmic reticulum; cytoplasm; nucleolus; extracellular region; IkappaB kinase complex; cytosol; nucleus Molecular Function: protein binding; protein homodimerization activity; protease binding; caspase activator activity; Pyrin domain binding Biological Process: apoptosis; positive regulation of apoptosis; myeloid dendritic cell activation during immune response; regulation of protein stability; positive regulation of JNK cascade; positive regulation of caspase activity; positive regulation of interleukin-1 beta secretion; signal transduction; positive regulation of activated T cell proliferation; defense response to Gram-negative bacterium; activation of NF-kappaB transcription factor; tumor necrosis factor-mediated signaling pathway; positive regulation of phagocytosis; inflammatory response; defense response to virus; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; positive regulation of adaptive immune response; caspase activation; positive regulation of interleukin-6 production; interleukin-1 beta production; negative regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of tumor necrosis factor production; negative regulation of interferon-beta production; myeloid dendritic cell activation; positive regulation of interferon-gamma production; positive regulation of actin filament polymerization; inhibition of NF-kappaB transcription factor; regulation of inflammatory response; innate immune response; regulation of autophagy; positive regulation of transcription factor activity; positive regulation of T cell activation; positive regulation of defense response to virus by host; activation of innate immune response; positive regulation of antigen processing and presentation of peptide antigen via MHC class II
Research Articles on PYCARD	**1.** Reactivation of ASC protein expression in LS174T cells promotes sodium butyrate induced apoptosis.
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