PYCARD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PYCARD, Polyclonal Antibody
Full Product Name	PYCARD, CT (PYCARD, ASC, CARD5, TMS1, Apoptosis-associated speck-like protein containing a CARD, Caspase recruitment domain-containing protein 5, PYD and CARD domain-containing protein, Target of methylation-induced silencing 1) (MaxLight 490)
Product Gene Name	anti-PYCARD antibody
Product Synonym Names	PYCARD; ASC; CARD5; TMS1; Apoptosis-associated speck-like protein containing a CARD; Caspase recruitment domain-containing protein 5; PYD and CARD domain-containing protein; Target of methylation-induced silencing 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human PYCARD
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21627 MW
OMIM	606838
3D Structure	ModBase 3D Structure for Q9ULZ3
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 129-158 in the C-terminal region of human PYCARD, UniProt Accession #NP_037390.2; NP_660183.1; Q9ULZ3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PYCARD antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-PYCARD antibody	Western Blot (WB), FLISA
Application Notes for anti-PYCARD antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PYCARD antibody	MaxLight490 is a new Blue-Green photostable dye conjugate comparable to DyLight488, Alexa Fluor488 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (491nm); Emission (515nm); Extinction Coefficient 73,000.
Product References and Citations for anti-PYCARD antibody	1. Grau, E., et al. J. Cancer Res. Clin. Oncol. 136(9):1415-1421(2010). 2. Motani, K., et al. Cancer Sci. 101(8):1822-1827(2010). 3. Mishra, B.B., et al. Cell. Microbiol. 12(8):1046-1063(2010). 4. Cheng, J., et al. J. Cell. Physiol. 222(3):738-747(2010). 5. McElvania Tekippe, E., et al. PLoS ONE 5 (8), E12320 (2010).

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	MBS6339322 is an antibody targeting PYCARD. Also known as PYCARD, CT (PYCARD, ASC, CARD5, TMS1, Apoptosis-associated speck-like protein containing a CARD, Caspase recruitment domain-containing protein 5, PYD and CARD domain-containing protein, Target of methylation-induced silencing 1) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	10835256
NCBI GeneID	29108
NCBI Accession #	NP_037390.2
NCBI Related Accession #	NP_660183.1
UniProt Primary Accession #	Q9ULZ3
UniProt Secondary Accession #	Q96D12; Q9BSZ5; Q9HBD0; Q9NXJ8
UniProt Related Accession #	Q9ULZ3
GenBank Nucleotide #	NM_013258.4
NCBI Official Full Name	apoptosis-associated speck-like protein containing a CARD isoform a
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
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: Tumor suppressor; Adaptor/scaffold 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: myeloid dendritic cell activation during immune response; apoptosis; positive regulation of apoptosis; regulation of protein stability; positive regulation of caspase activity; positive regulation of JNK cascade; positive regulation of interleukin-1 beta secretion; positive regulation of activated T cell proliferation; signal transduction; defense response to Gram-negative bacterium; activation of NF-kappaB transcription factor; tumor necrosis factor-mediated signaling pathway; positive regulation of phagocytosis; inflammatory response; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; defense response to virus; positive regulation of adaptive immune response; caspase activation; interleukin-1 beta production; positive regulation of interleukin-6 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.** ASC CpG methylation may prove to be a primary regulator of the pathogenesis of chronic inflammatory diseases such as heart failure.
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