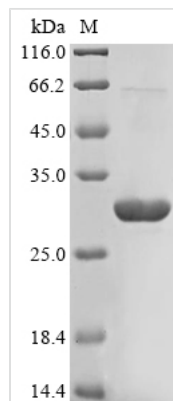




Recombinant Human Apoptosis-associated speck-like protein containing a CARD (PYCARD)

Product Code	CSB-EP890936HU
Abbreviation	Recombinant Human PYCARD protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9ULZ3
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTD KLVSFYLETYGAELTANVLRDMGLQEMAGQLQAATHQGSGAAPAGIQAPPQS AAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVRAEPTNPSKM RKLFSFTPAWNWTCKDLLLQALRESQSYLVEDLERS
Research Area	Cancer
Source	E.coli
Target Names	PYCARD
Protein Names	Recommended name: Apoptosis-associated speck-like protein containing a CARD Short name= hASC Alternative name(s): Caspase recruitment domain-containing protein 5 PYD and CARD domain-containing protein Target of methylation-induced s
Expression Region	1-195aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	29.1 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant human PYCARD protein is encoded by a recombinant DNA that was cloned into the expression vector and then transformed into the E.coli that supports the expression of the gene. The recombinant DNA was constructed by fusing the N-terminal 10xHis tag and C-terminal Myc tag gene to the gene fragment coding for the 1-195aa of the human PYCARD protein. After purification, the product is the recombinant human PYCARD protein. This recombinant PYCARD protein was subjected to the SDS-PAGE determination. Its purity reaches over 85% evaluated by BandsScan software analysis combined with SAS-PAGE. This recombinat PYCARD protein may have applications in cancer research.

PYCARD protein contains an N-terminal PYRIN-PAAD-DAPIN domain and a C-terminal caspase-recruitment domain. PYCARD has been found to mediate inflammatory and apoptotic signaling pathways via the activation of caspase. In normal cells, PYCARD expression is found on cytoplasm. PYCARD comes in four different isoforms (1-4). The four kinds of isoforms are related to different biological process. Recent studies identified that aberrant hypermethylation-mediated suppression of PYCARD is extremely frequent in prostate cancer. In addition, the critical role for PYCARD has been found in the development of experimental autoimmune encephalomyelitis.

Shelf Life

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