

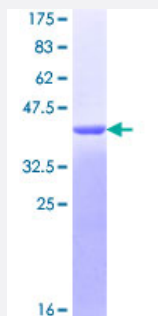
Full-Length

## PYCARD (Human) Recombinant Protein (P01)

Catalog # H00029108-P01

Size 25 ug, 10 ug

### Applications



### Specification

Product Description	Human PYCARD full-length ORF ( AAH13569.2, 1 a.a. - 149 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDALDLTDKLVSFYLETYGAELTANVLRDMGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKP GLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVRAEPTNPSKMRKLFNFTPAWNWTCKD LLLQALRESQSYLEVDLERS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.13
Interspecies Antigen Sequence	Mouse (71); Rat (69)
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PYCARD

Entrez GeneID [29108](#)

GeneBank Accession# [BC013569](#)

Protein Accession# [AAH13569.2](#)

Gene Name PYCARD

Gene Alias ASC, CARD5, MGC10332, TMS, TMS-1, TMS1

Gene Description PYD and CARD domain containing

Omim ID [606838](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** apoptosis-associated speck-like protein containing a CARD|caspase recruitment domain protein 5|target of methylation-induced silencing-1

## Publication Reference

- [Targeting ASC in NLRP3 inflammasome by caffeic acid phenethyl ester: a novel strategy to treat acute gout.](#)

Lee HE, Yang G, Kim ND, Jeong S, Jung Y, Choi JY, Park HH, Lee JY.

Scientific Reports 2016 Dec; 6:38622.

Application: Func, PI, Recombinant protein

- [Molecular Basis of Acute Cystitis Reveals Susceptibility Genes and Immunotherapeutic Targets.](#)

Ambite I, Puthia M, Nagy K, Cafaro C, Nadeem A, Butler DS, Rydström G, Filenko NA, Wullt B, Miethke T, Svanborg C.

PLoS Pathogens 2016 Oct; 12(10):e1005848.

Application: Func, EMSA, Human, Recombinant protein

- [NLRP3 activation and mitosis are mutually exclusive events coordinated by NEK7, a new inflammasome component.](#)

Shi H, Wang Y, Li X, Zhan X, Tang M, Fina M, Su L, Pratt D, Bu CH, Hildebrand S, Lyon S, Scott L, Quan J, Sun Q, Russell J, Arnett S, Jurek P, Chen D, Kravchenko VV, Mathison JC, Moresco EM, Monson NL, Ulevitch RJ, Beutler B.

Nature Immunology 2016 Mar; 17(3):250.

Application: WB-Ce, Human, J774A.1 cells, Macrophages

## Disease

- [Arthritis](#)
- [Genetic Predisposition to Disease](#)