



Recombinant Mouse Apoptosis-associated speck-like protein containing a CARD (Pycard)

Product Code	CSB-EP861664MO
Abbreviation	Recombinant Mouse 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.	Q9EPB4
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MGRARDAILDALENLSGDELKKFKMKLLTVQLREGYGRIPRGALLQMDAIDLTD KLVSYYLESYGLELTMTVLRDMGLQELAEQLQTTKEESGAVAAAASVPAQSTA RTGHFVDQHRQALIARVTEVDGVLDALHGSLVTEGQYQAVRAETTSQDKMRK LFSFVPSWNLTKDSLLQALKEIHPYLVMDLEQS
Research Area	Cancer
Source	E.coli
Target Names	Pycard
Protein Names	Recommended name: Apoptosis-associated speck-like protein containing a CARD Short name= mASC Alternative name(s): PYD and CARD domain-containing protein
Expression Region	1-193aa
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	28.9 kDa
Protein Length	Full Length
Image	



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

Description

A cDNA sequence encoding full-length mouse apoptosis-associated speck-like protein containing a CARD (Pycard) was inserted a 10xHis--tag at the N-terminus and a Myc-tag at the C-terminus and then expressed in E.coli. The resulting protein consists of 1-193aa of mouse Pycard and has a calculated molecular weight of 28.9 kDa. Its purity is greater than 85% measured by SDS-PAGE. This recombinant Pycard protein may find uses in the specific antibody generation or the studies of Pycard-involving cancers.

Pycard, also known as ASC, is an adaptor protein of the inflammasome complex which forms aggregates (ASC specks) leading to cell death by pyroptosis. Rendong Fang etc. showed that Pycard and NLRP3 facilitate airway mucosal innate immunity via an inflammasome-independent mechanism involving the STAT6-SPDEF pathway. Pycard has been reported to be associated with Rheumatoid arthritis in humans.

Shelf Life

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.