# PRODUCT DATA SHEET

## ASC Polyclonal Antibody

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|---|---|
| **Catalog No.** | IPB0029 |
| **Reactivity** | Human; Mouse; Rat |
| **Applications** | WB; IHC-p; IF/ICC; ELISA |
| **Dilution** | WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200 ELISA: 1:40000 |
| **Gene Name** | PYCARD |
| **Protein Name** | Apoptosis-associated speck-like protein containing a CARD |
| **Human Gene Id** | 29108 |
| **Swiss-Prot** | Q9ULZ3 |
| **Formulation** | Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide |
| **Source** | Rabbit |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |
| **Concentration** | 1 mg/ml |
| **Storage&Stability** | -20°C/1 year |
| **Subcellular Location** | Cytoplasm Inflammasome Endoplasmic reticulum Mitochondrion Nucleus Upstream of caspase activation, a redistribution from the cytoplasm to the aggregates occurs These appear as hollow, perinuclear spherical, ball-like structures (PubMed:11103777, PubMed:12191486, PubMed:15030775) Upon NLRP3 inflammasome activation redistributes to the perinuclear space localizing to endoplasmic reticulum and mitochondria (PubMed:12191486, PubMed:15030775) Localized primarily to the nucleus in resting monocytes:macrophages and rapidly redistributed to the cytoplasm upon pathogen infection (PubMed:19234215) Localized to large cytoplasmic aggregate appearing as a speck containing AIM2, PYCARD, CASP8 and bacterial DNA after infection with Francisella tularensis (By similarity) Golgi apparatus membrane (Microbial infection) Upon HRSV infection, the protein is mainly located in lipid rafts in the Golgi membrane |
| **MW** | 21627 |
| **Background** | 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 |

## Products Images:

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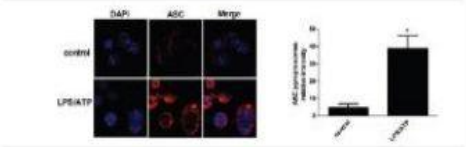
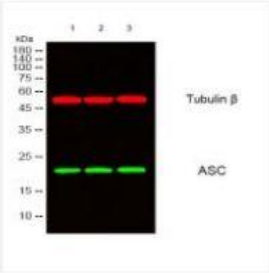
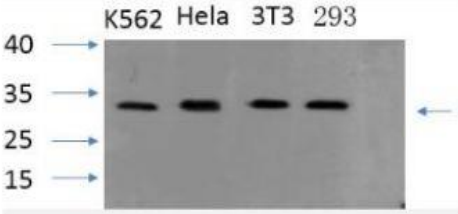


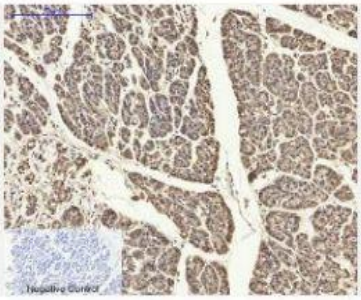

Wu, Dong-Dong, et al. "Inhibition of alveolar macrophage pyroptosis reduces lipopolysaccharide-induced acute lung injury in mice." Chinese medical journal 128.19 (2015): 2638.




Western blot analysis of lysates from 1) K562 , 2) Hela , 3) 3T3 cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Monoclonal Antibody(5G3) (cat:YM3030) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.




Western Blot analysis of various cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by Minute™ Plasma Membrane Protein Isolation and Cell Fractionation Kit(SM-005, Inventbiotech,MN,USA).



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,ASC Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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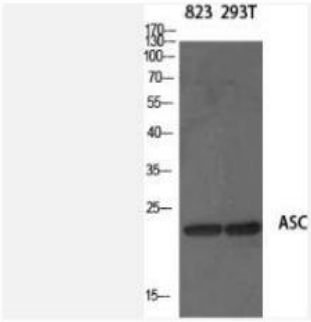
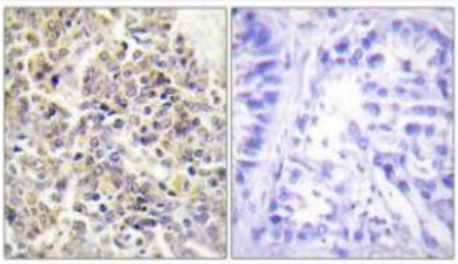
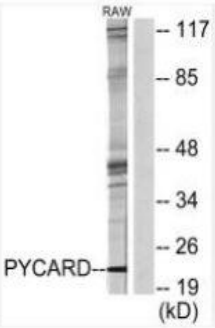



Western Blot analysis of various cells using ASC Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using ASC Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from RAW264.7 cells, using ASC Antibody. The lane on the right is blocked with the synthesized peptide.