# ASC polyclonal antibody

ASC (Apoptosis-associated speck-like protein containing a CARD domain) is a bipartite protein comprising two protein-protein interaction domains, a Pyrin domain (PYD) and a caspase recruitment domain (CARD). Proteins containing these domains play pivotal roles in regulating apoptosis and immune response pathways. Reported functions of ASC include apoptosis, activation of inflammatory caspases and regulation of NFκB.

**This antibody is covered by our Worry-Free Guarantee.**

**Citations:** 39 View Online »

## Ordering Information Order Online »

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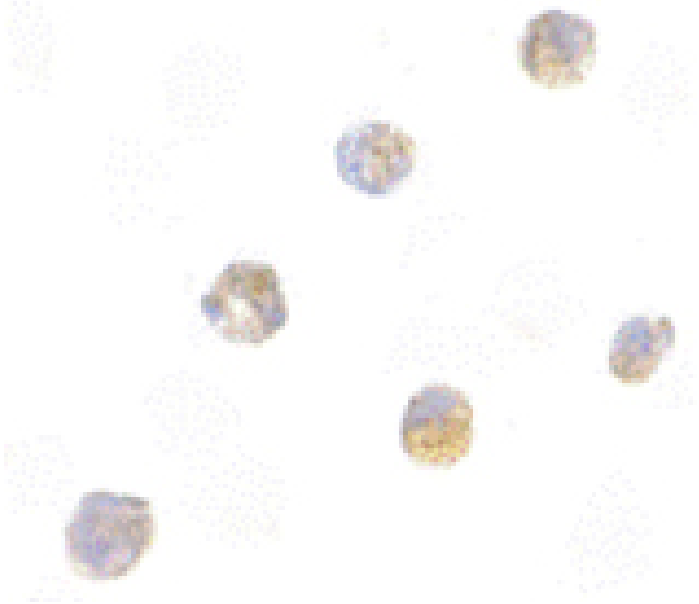
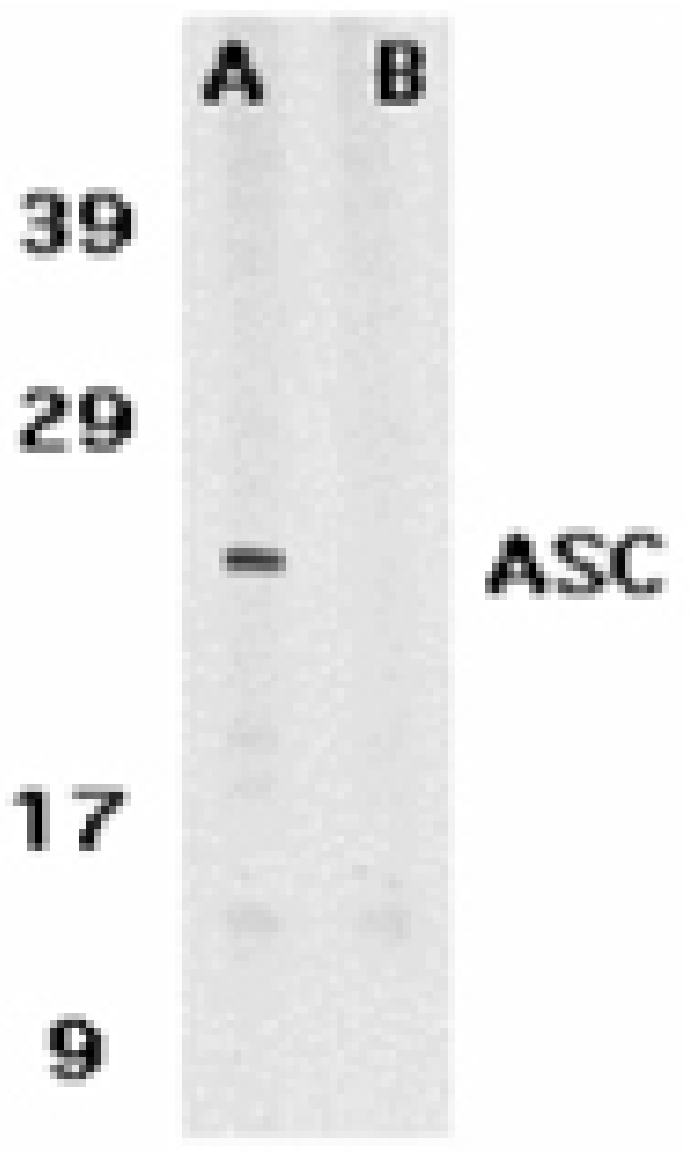
|---|---|
| **ADI-905-173-100** | 100µg |

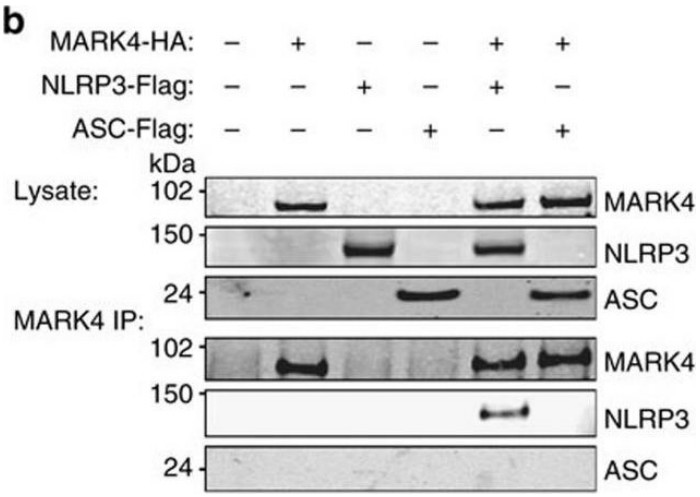
## Manuals, SDS & CofA View Online »



Immunocytochemistry analysis of ASC in HL60 cells with ASC antibody at 5µg/ml.




Western blot analysis of ASC in HL60 whole cell lysate in the absence (A) or presence (B) of blocking peptide (2287P) with ASC antibody at 1µg/ml.




MARK4 interacts with NLRP3 in a microtubule-dependent manner.(a) Upon nigericin stimulation (3 μM for 2 h), microtubule-disrupting drugs colchicine and nocodazole reduced the interaction between Mark4 and Nlrp3, shown by PLA signals in WT BMDM cells. Mark4 KO and Nlrp3 KO BMDM cells were employed as controls. (b) MARK4 was associated with NLRP3 in co-immunoprecipitation assay. Whole cell lysates were analysed as indication of transfection. Western blots are representative of 3 independent experiments. (c) Upon nigericin stimulation, PLA signal of NlrpP3 and Mark4, or Asc and Mark4 in BMDM cells derived from WT or Nlrp3 KO. Secondary only was employed as control in this PLA assay. (d) PLA signal of Nlrp3 and Asc in BMDM cells derived from WT or Nlrp3 KO or Asc KO before or after nigericin stimulation (3 μM for 2 h). Mean±s.e.m. for all the cells taken from 5 to 8 different views at × 40 magnification for each group (a,b,d). Comparisons of the two different groups were analysed by unpaired t-test. NS was considered as not statistically significant. *P<0.05, ***P<0.001 and ****P<0.0001 were considered as statistically significant (a,c,d). Results are representatives of three independent experiments. Scale bar, 10 μm.

## Handling & Storage

**Long Term Storage** -20°C

**Shipping** Blue Ice

## Regulatory Status RUO - Research Use Only

## Product Details

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|---|---|
| **Alternative Name** | Apoptosis-associated speck-like protein containing a CARD, Caspase recruitment domain-containing protein 5, CARD-5, PYD and CARD domain-containing protein, PYCARD, Target of methylation-induced silencing, TMS1 |
| **Application** | ICC, WB |
| **Application Notes** | Detects a band of ~25kDa by Western blot. |
| **Formulation** | Liquid. In PBS containing 0.02% sodium azide. |
| **Host** | Rabbit |
| **Immunogen** | Synthetic peptide corresponding to aa 182-195 of human ASC . |
| **Purity Detail** | Peptide affinity purified. |
| **Recommendation Dilutions/Conditions** | Western Blot (1µg/ml)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Species Reactivity** | Human |
| **UniProt ID** | Q9ULZ3 |
| **Worry-free Guarantee** | **This antibody is covered by our Worry-Free Guarantee .** |

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