

Anti-Asc (Tyr-144), Phosphospecific Antibody

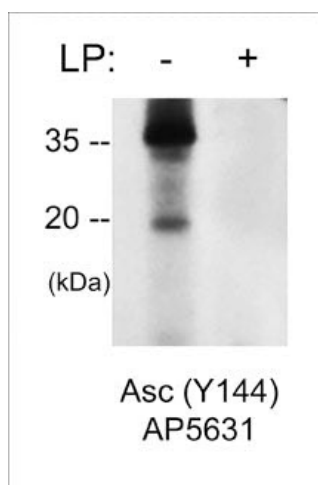


Product Details

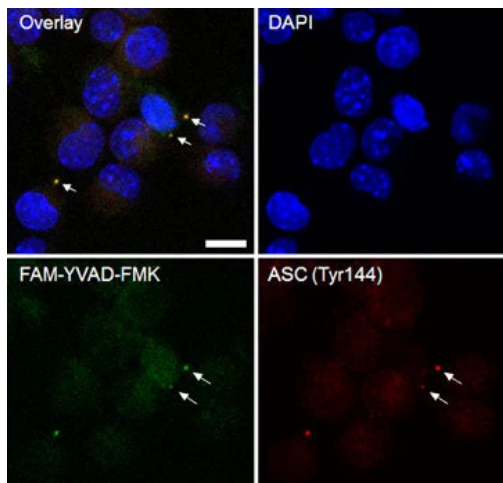
Available Variants	100 µL (SKU:AP5631)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	Pycard
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100
Species Reactivity	Human, Mouse, Rat
Immunogen	Asc (Tyr-144) phospho-peptide (coupled to KLH) corresponding to amino acid residues surrounding Tyr-144 in mouse Asc. This peptide sequence is highly conserved in human and rat Asc.
Specificity	This antibody was cross-adsorbed to unphosphorylated Asc (Tyr-144) peptide before affinity purification using phospho-Asc (Tyr-144) peptide. The antibody detects phosphorylated Asc (Tyr-144) in the inflammasome. In J774 macrophage cells primed with LPS and treated with nigericin, the antibody colocalized with an inflammasome marker, caspase-1 inhibitor (FAM-YVAD-FMK). In addition, the antibody detects a 20 kDa Asc protein in western blots of J774A.1 mouse macrophages treated with pervanadate.
Molecular Weight	22
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	Q9EPB4
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Tyr-144

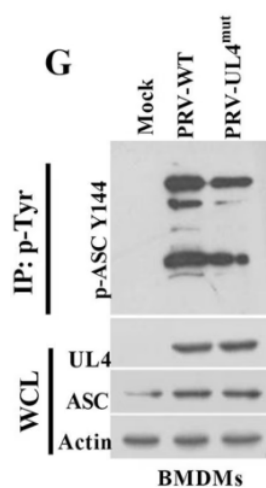
Product Images



Western blot analysis of mouse macrophage J774A.1 cells stimulated with pervanadate (1 mM for 30 min.), then untreated (-) or treated (+) with alkaline phosphatase. The blot was probed with rabbit polyclonal anti-Asc (Tyr-144) phospho-specific antibody (AP5631) at 1:500.



Immunocytochemical labeling of Asc (Tyr-144) in inflammasomes. Paraformaldehyde fixed J774 cells were primed with LPS and treated with nigericin. Cells were co-labeled with DAPI, a caspase-1 inhibitor (FAM-YVAD-FMK), and anti-Asc (Tyr-144) phosphospecific antibody detected with AlexaFluor 568 secondary. (Image provided by Jordan Yaron, Center for Biosignatures Discovery Automation, Arizona State University)



Immunoprecipitation analysis of ASC Y144 (Cat. AP5631) phosphorylation in mouse bone marrow-derived macrophages (BMDMs) infected with Mock, PRV-WT, PRV-UL4mut for 12 h. Image from publication CC-BY-4.0. [PMID: 39110798](https://pubmed.ncbi.nlm.nih.gov/39110798/)

Product Page URL: www.antibodiesinc.com/products/anti-asc-tyr-144-phosphospecific-antibody-ap5631



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