

Product Datasheet

Caspase-1 Antibody - BSA Free NB100-56564

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56564

Caspase-1 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	45.2 kDa

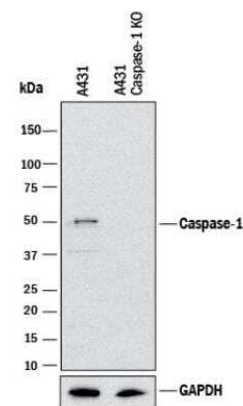
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit Caspase-1 Antibody - BSA Free (NB100-56564) is a polyclonal antibody validated for use in IHC and WB. Anti-Caspase-1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	834
Gene Symbol	CASP1
Species	Human, Mouse
Reactivity Notes	Porcine (85%), Rabbit (85%) and Canine (70%).
Specificity/Sensitivity	Caspase-1 Antibody recognizes full-length Caspase-1.
Immunogen	Caspase-1 Antibody was developed against a synthetic peptide made to an internal portion of the human Caspase-1 protein (between amino acids 15-60) [UniProt P29466].

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Knockout Validated
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Knockout Validated

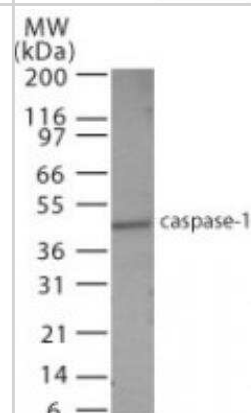


Images

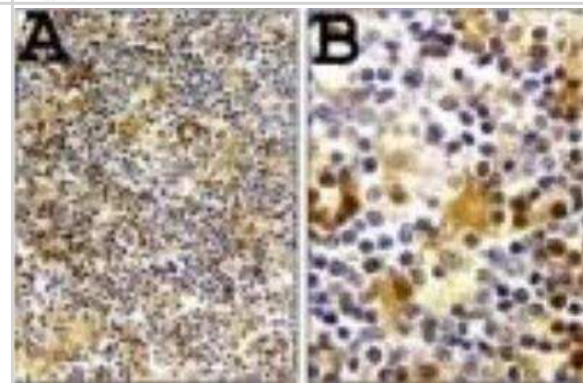
Western Blot: Caspase-1 Antibody [NB100-56564] - Human epidermoid carcinoma parental cell line and Caspase-1 knockout (KO) A431 cell line. PVDF membrane was probed with 0.5 ug/ml of Mouse Anti-Human Caspase-1 Monoclonal Antibody (Catalog # NB100-56564) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for Caspase-1 at approximately 50 kDa (as indicated) in the parental A431 cell line, but is not detectable in the knockout A431 cell line. This experiment was conducted under reducing conditions.



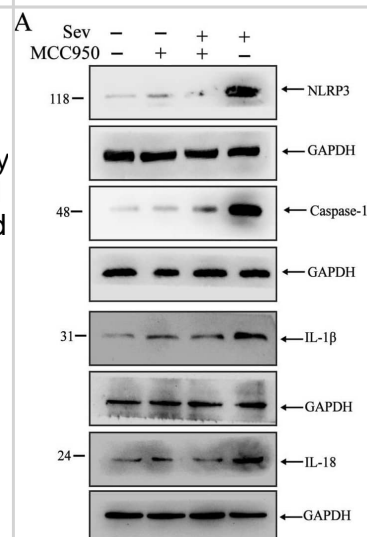
Western Blot: Caspase-1 Antibody [NB100-56564] - Analysis of Caspase-1 using a polyclonal antibody. Human HeLa lysate probed with Caspase-1 antibody at 0.5 ug/ml.



Immunohistochemistry-Paraffin: Caspase-1 Antibody [NB100-56564] - Human reactive lymph node stained for Caspase-1 expression (NB100-56564) using a DAB chromogen and Hematoxylin counterstain. B is a higher magnification of A. Staining in macrophages is observed.



Sevoflurane can increase the protein expression of NLRP3 inflammasome and its downstream inflammatory factors in prefrontal cortex. A–E Expression levels of NLRP3 inflammatory factors, related components, and downstream cytokine proteins. Western blot images were cropped to remove irrelevant sections of the image and display only the proteins of interest. Loading control: protein extracted from prefrontal cortex tissue from sham subjects treated with saline (lane1). Tissue used for Western blot analysis was collected 24-h after the last drug-administration. F–I NLRP3 inflammatory factors, related components, and downstream cytokine PCR results. Data are expressed as mean \pm SD; n = 4 for each experimental group. ***Compared with the Ctrl group, ###compared with the Sev group. P < 0.05 indicated a statistically significant difference Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36709248>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kariya S, Okano M, Zhao P et al. Role of Macrophage Migration Inhibitory Factor in NLRP3 Inflammasome Expression in Otitis Media Otology & Neurotology 2020-03-01 [PMID: 31821259] (Western Blot, Mouse)

Zhou J, Zhang C, Fang X et al. Activation of autophagy inhibits the activation of NLRP3 inflammasome and alleviates sevoflurane induced cognitive dysfunction in elderly rats Research Square 2022-08-10 [PMID: 36709248] (WB, Rat)

Dumas A, Amiabile N, de Rivero Vaccari JP et al. The Inflammasome Pyrin Contributes to Pertussis Toxin-Induced IL-1B Synthesis, Neutrophil Intravascular Crawling and Autoimmune Encephalomyelitis. PLoS Pathog. 2014-05-01 [PMID: 24875775] (WB, Mouse)

Details:

Fig 4c, d: peritoneal leukocytes





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Products Related to NB100-56564

NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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