

Product Datasheet

Caspase-8 Antibody NB100-56116

Unit Size: 0.05 ml

Store at -20C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 2 Publications: 76

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-56116

Updated 1/12/2025 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-56116

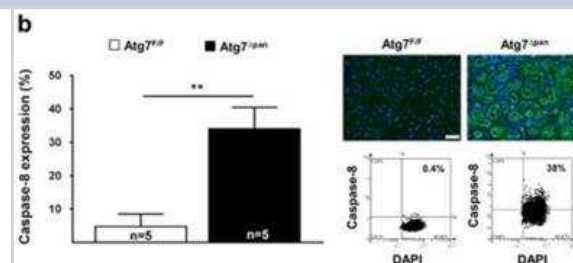


NB100-56116**Caspase-8 Antibody**

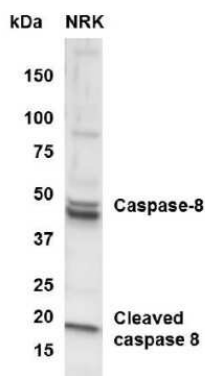
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	55.4 kDa
Product Description	
Host	Rabbit
Gene ID	841
Gene Symbol	CASP8
Species	Human, Mouse, Rat, Gerbil
Reactivity Notes	Possible reactivity with canine species.
Specificity/Sensitivity	Detects Caspase-8 and cleavage products.
Immunogen	Recombinant catalytically active human Caspase-8 protein.
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Simple Western 1:500, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	See Simple Western Antibody Database for Simple Western validation: Cell lysates as sample type; separated by size; antibody dilution of 1:500; matrix was 12-230 kDa; detected by Chemiluminescence.

Images

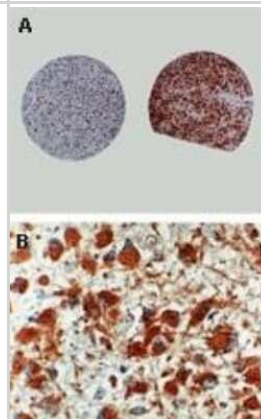
Immunohistochemistry: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Autophagy-deficient mice showed increased activity of apoptosis and necroptosis. Reduced pancreatic Atg7 level increased the expression of Caspase-8 in 12-week-old Atg7^{deltapan} mice. Caspase-8 quantitation and representative IF microphotographs of Atg7^{F/F} (n=5) and Atg7^{deltapan} (n=5) pancreatic tissue stained for DAPI (blue) and Caspase-8 (green) (1/1000, scale bar=50 um). Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/doi/10.1038/cddis.2017.313>), licensed under a CC-BY license.



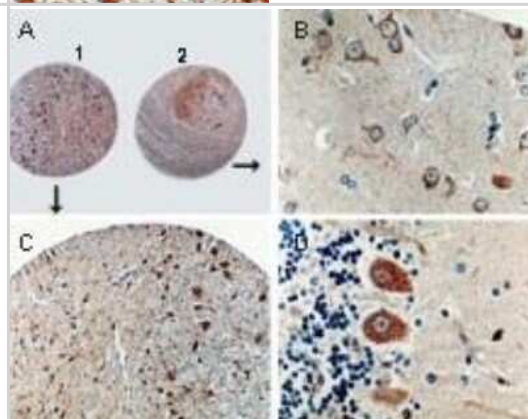
Western Blot: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Analysis of active/cleaved Caspase 8 in NRK whole cell lysate using anti-active/cleaved Caspase 8 antibody. WB image submitted by a verified customer review.



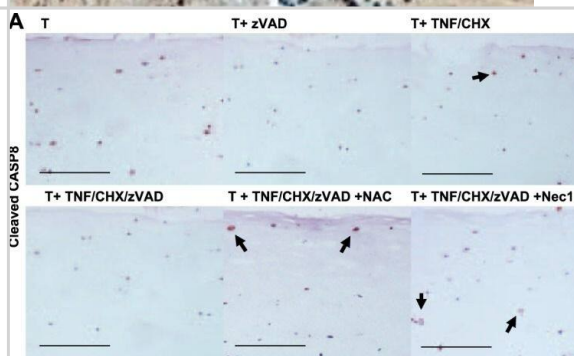
Immunohistochemistry-Paraffin: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Sections from a brain tumor tissue array stained for Caspase-8 expression using NB100-56116 at 1:2000. A. Anaplastic glioma (Grade III, left) and Gemistocytoma (Grade II, right) cores showing negative and positive staining for Caspase-8, respectively. B. Higher magnification of the Gemistocytoma tumor (from A).



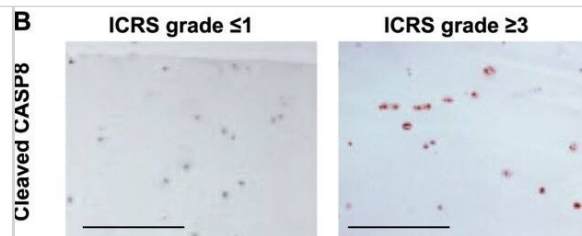
Immunohistochemistry-Paraffin: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Sections from a brain tissue array stained for Caspase-8 expression using NB100-56116 at 1:2000. A. Normal brain stem (1) and cortex (2). B. Higher magnification of cortex (from A). C. Higher magnification of brain stem (from A). D. Normal cerebellum showing caspase-8 staining in the Purkinje cells.



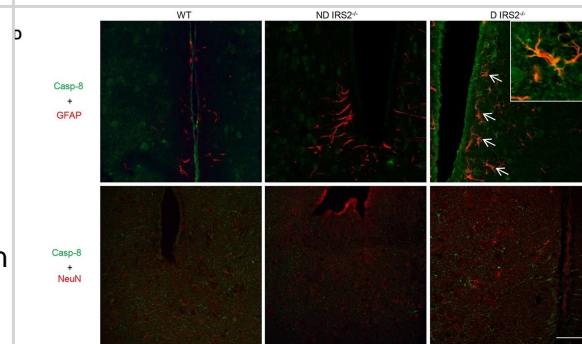
Immunohistochemistry: Caspase-8 Antibody [NB100-56116] - Necroptosis marker p-MLKL can be detected in OA cartilage & after TNF/CHX stimulation. Exemplary images of impacted & differently stimulated cartilage explants after immunohistochemical staining of a cleaved CASP8, b RIPK3, & c p-MLKL. In addition, percentage of cleaved CASP8- (d) & p-MLKL- (e) positive cells was quantified (n = 3). Images were acquired using a 20× objective; the bars represent 200 μm. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31527653>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: Caspase-8 Antibody [NB100-56116] - Expression of necroptosis- & apoptosis-related markers is elevated in OA cartilage. Necroptosis- & apoptosis-related markers in highly degenerated cartilage tissue of OA patients (ICRS grade ≥ 3) were determined by a gene expression analysis of apoptosis & necroptosis markers as well as immunohistochemical analysis (IHC) of b cleaved CASP8, c RIPK3, & d p-MLKL. Macroscopically intact cartilage (ICRS grade ≤ 1) served as control. Bars in the IHC images represent 200 μ m. Statistical analysis was performed by an unpaired multiple t test; error bars indicate median & range from min to max; n = 13. Significant differences between groups were depicted as: *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001 Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31527653>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Caspase-8 Antibody [NB100-56116] - Analysis of the cell type susceptible to apoptotic cell death in the hypothalamus of IRS2^{-/-} mice. Immunoblots probed with antibodies against GFAP (A) & Tuj-1 (B) in the hypothalamus of wild-type (WT), non-diabetic IRS2-deficient (ND IRS2^{-/-}) & diabetic IRS2-deficient (D IRS2^{-/-}) mice. The average of three independent assays performed in duplicate is shown. Statistical significance by ANOVA: *P < 0.05 vs WT mice. n=6/group. (C) Colocalization of TUNEL & GFAP in the hypothalamus of WT, ND IRS2^{-/-} & D IRS2^{-/-} mice. Arrows indicate astrocytes with apoptotic nuclei. (D) Colocalization of cleaved caspase-8 & GFAP, & of cleaved caspase-8 & NeuN, in the hypothalamus of WT, ND IRS2^{-/-} & D IRS2^{-/-} mice. Arrows indicate colocalization of GFAP & cleaved caspase-8. Scale bar: 50 μ m; inset, 100 μ m. Image collected & cropped by CiteAb from the following publication (<https://journals.biologists.com/dmm/article/doi/10.1242/dmm.023515/257174/Increased-oxidative-stress-and-apoptosis-in-the>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ruera CN, Perez F, Iribarren ML, Guzman L et Al. Coexistence of apoptosis, pyroptosis, and necroptosis pathways in celiac disease Clin Exp Immunol 2023-07-17 [PMID: 37455655]

Y Inaba, E Hashiuchi, H Watanabe, K Kimura, Y Oshima, K Tsuchiya, S Murai, C Takahashi, M Matsumoto, S Kitajima, Y Yamamoto, M Honda, SI Asahara, K Ravnskjaer, SI Horike, S Kaneko, M Kasuga, H Nakano, K Harada, H Inoue The transcription factor ATF3 switches cell death from apoptosis to necroptosis in hepatic steatosis in male mice Nature Communications, 2023-01-23;14(1):167. 2023-01-23 [PMID: 36690638] (Immunohistochemistry, Western Blot)

Ga-Eun Lee, Geul Bang, Jiin Byun, Cheol-Jung Lee, Weidong Chen, Dohyun Jeung, Hyun-Jung An, Han Chang Kang, Joo Young Lee, Hye Suk Lee, Young-Soo Hong, Dae Joon Kim, Megan Keniry, Jin Young Kim, Jin-Sung Choi, Manolis Fanto, Sung-Jun Cho, Kwang-Dong Kim, Yong-Yeon Cho Dysregulated CREB3 cleavage at the nuclear membrane induces karyoptosis-mediated cell death Experimental & Molecular Medicine 2024-03-13 [PMID: 38480902]

Rochelle Fletcher, Jingshan Tong, Denise Risnik, Brian Leibowitz, Yi-Jun Wang, Fernando Concha-Benavente, Jonathan M. DeLiberty, Donna B. Stolz, Reet K. Pai, Robert L. Ferris, Robert E. Schoen, Jian Yu, Lin Zhang Non-steroidal anti-inflammatory drugs induce immunogenic cell death in suppressing colorectal tumorigenesis Oncogene 2021-02-05 [PMID: 33603166]

Kathryn A. F. Pennel, Phimmada Hatthakarnkul, Colin S. Wood, Guang-Yu Lian, Sara S. F. Al-Badran, Jean A. Quinn, Assya Legrini, Jitwadee Inthagard, Peter G. Alexander, Hester van Wyk, Ahmad Kurniawan, Umar Hashmi, Michael A. Gillespie, Megan Mills, Aula Ammar, Jennifer Hay, Ditte Andersen, Colin Nixon, Selma Rebus, David K. Chang, Caroline Kelly, Andrea Harkin, Janet Graham, David Church, Ian Tomlinson, Mark Saunders, Tim Iveson, Tamsin R. M. Lannagan, Rene Jackstadt, Noori Maka, Paul G. Horgan, Campbell S. D. Roxburgh, Owen J. Sansom, Donald C. McMillan, Colin W. Steele, Nigel B. Jamieson, James H. Park, Antonia K. Roseweir, Joanne Edwards JAK/STAT3 represents a therapeutic target for colorectal cancer patients with stromal-rich tumors Journal of Experimental & Clinical Cancer Research : CR 2024-03-01 [PMID: 38424636]

Wang S, Chang CW, Huang J et al. Gasdermin C sensitizes tumor cells to PARP inhibitor therapy in cancer models The Journal of clinical investigation 2023-10-26 [PMID: 37883181] (WB, Human)

Luk CT, Chan CK, Chiu F et al. Dual role of caspase 8 in adipocyte apoptosis and metabolic inflammation Diabetes 2023-09-12 [PMID: 37699387]

Zhang L, Zhu D, Jiang J et al. The ubiquitin E3 ligase MDM2 induces chemoresistance in colorectal cancer by degradation of ING3 Carcinogenesis 2023-06-06 [PMID: 37279970]

Subramanya S, Fernando R, Goswami M et al. Flow cytometric method for the detection and quantification of retinal cell death and oxidative stress Experimental eye research 2023-06-29 [PMID: 37393050] (FLOW, Mouse)

Zhou J, Xiang W, Zhang K et al. IL1RAP Knockdown in LPS-Stimulated Normal Human Astrocytes Suppresses LPS-Induced Reactive Astrogliosis and Promotes Neuronal Cell Proliferation Neurochemical research 2022-12-11 [PMID: 36502418]

Lee SH, Ok SH, Ahn SH et al. Lipid emulsion inhibits the cardiac toxicity caused by chloroquine via inhibition of reactive oxygen species production Korean journal of anesthesiology 2022-11-15 [PMID: 36377332] (WB, Rat)

WU S, HU S, FAN W et al. Nitrite exposure may induce infertility in mice J Toxicol Pathol 2022-02-28 [PMID: 35221497]

More publications at <http://www.novusbio.com/NB100-56116>





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-56116

NBP3-11853	Jurkat Staurosporine Treated / Untreated Cell Lysate
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-56116

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

