

Product Datasheet

Caspase-3 Antibody - (Pro and Active) - BSA Free NB100-56112SS

Unit Size: 0.025 ml

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

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NB100-56112SS

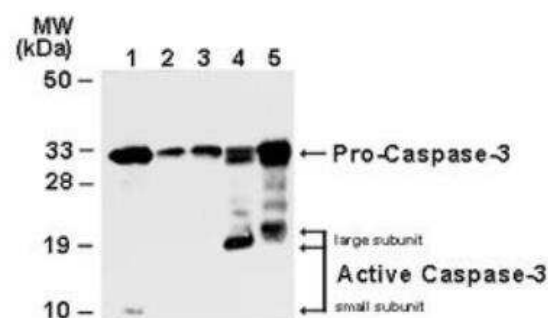
Caspase-3 Antibody - (Pro and Active) - BSA Free

Product Information	
Unit Size	0.025 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	31.7 kDa
Product Description	
Description	Novus Biologicals Rabbit Caspase-3 Antibody - (Pro and Active) - BSA Free (NB100-56112) is a polyclonal antibody validated for use in IHC, WB, Simple Western, IP and ChIP. Anti-Caspase-3 Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	836
Gene Symbol	CASP3
Species	Human, Mouse, Rat, Canine, Gerbil
Immunogen	This Caspase-3 Antibody - (Pro and Active) was developed against full-length human Caspase-3 protein (pro-form).
Notes	
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000-1:2000, Simple Western 1:200, Chromatin Immunoprecipitation 1:10-1:500. Use reported in scientific literature (PMID 27735949), Immunohistochemistry 1:1000-1:5000, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:10-1:500, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	Immunoprecipitation, Western Blot, Immunohistochemistry-Paraffin IHC (frozen): Users should optimize according to model and immunodetection system used (secondary reagents). In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Hek293 lysate 0.2 mg/mL, separated by Size, antibody dilution of 1:200, apparent MW was 40 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

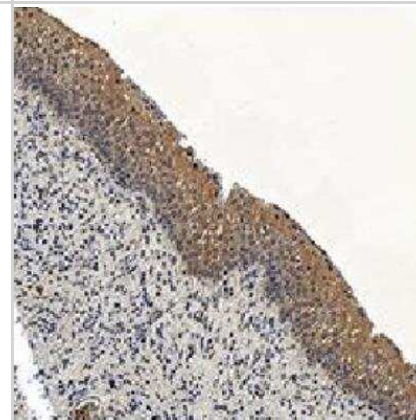


Images

Western Blot: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Analysis of Caspase-3. Lysates from Jurkat cells (lane 1), normal mammary tissue (lane 2) and surgical specimens from three invasive ductal carcinomas (lanes 3-5) were normalized for total protein content (50 ug/lane) and western blotted with Caspase-3 Antibody - (Pro and Active). The ~32 kDa pro-Caspase-3 protein was detected in all samples. Active/cleaved Caspase-3 was identified in Jurkat and two ductal carcinomas (14-21 kDa large subunit).



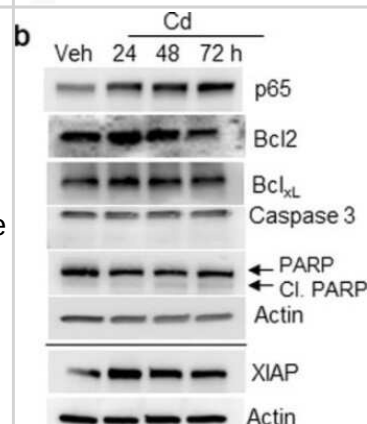
Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Caspase-3 was detected in immersion fixed paraffin-embedded sections of human bladder tissue 1:300 dilution of rabbit polyclonal Caspase-3 Antibody - (Pro and Active)(NB100-56112), for 1 hour at room temperature followed by anti-rabbit IgG VisUCyte HRP polymer(VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue).



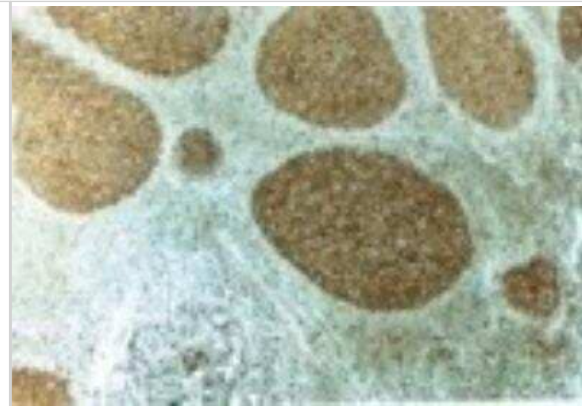
Simple Western: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Simple Western lane view shows a specific band for Caspase 3 in 0.2 mg/ml of HEK293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



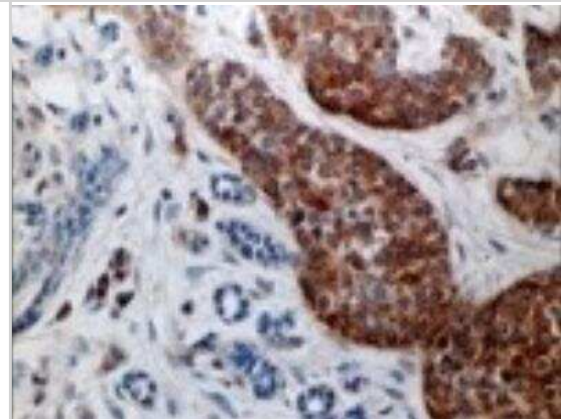
Western Blot: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Effect of acute Cd exposure on BPH1 cell proliferation, Shh signaling activation, and stem cell markers in a time-dependent manner. Cells were incubated with or without 10 uM Cd for the indicated time. Cell lysates were subjected to western blotting using antibodies against p65, Bcl2, BclxL, XIAP, cleaved caspase-3, cleaved PARP, and actin was used as loading control. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41389-020-0202-7>), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Caspase-3 expression in formalin-fixed, paraffin-embedded human reactive lymph node using NB100-56112 (Caspase-3 Antibody - (Pro and Active)) at 1:2000. Staining is seen in the apoptosis-prone germinal center B lymphocytes of follicles.



Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Analysis of Caspase-3 expression in formalin-fixed, paraffin-embedded human breast ductal carcinoma in situ using this antibody at 1:2000. Staining is seen in the the cancerous ducts, but not in the normal lobulus.



Publications

Zheng YD, He Z, Su ZC et al. Bufalin induces apoptosis and autophagy via the Ca²⁺/CaMKK β /AMPK/Beclin1 signaling pathway in osteosarcoma cells Cell biology international 2023-03-29 [PMID: 36987947]

Seyed Hosseini Fin N, Georgevsky D, Sukkar MB, Golzan SM RAGE and its ligand amyloid beta promote retinal ganglion cell loss following ischemia-reperfusion injury Frontiers in cellular neuroscience 2023-04-12 [PMID: 37124398] (IHC-P, Mouse)

Ling X, Jiang X, Li Y et al. Sequential Treatment of Bioresponsive Nanoparticles Elicits Antiangiogenesis and Apoptosis and Synergizes with a CD40 Agonist for Antitumor Immunity ACS nano 2020-12-21 [PMID: 33347262]

Chandrasekaran B, Dahiya N R et al. Chronic exposure to cadmium induces a malignant transformation of benign prostate epithelial cells. Oncogenesis 2020-02-17 [PMID: 32066655] (WB, Human)

Kwon I, Song W, Jang Y et al. Elevation of hepatic autophagy and antioxidative capacity by endurance exercise is associated with suppression of apoptosis in mice Annals of Hepatology [PMID: 31611063] (WB)

Bean GR, Kremer JC, Prudner BC et al. A metabolic synthetic lethal strategy with arginine deprivation and chloroquine leads to cell death in ASS1-deficient sarcomas. Cell Death Dis 2016-10-13 [PMID: 27735949] (Chemotaxis, WB, Human)

Krajewska Maryla, You Zerong, Rong Juan et al. Neuronal deletion of caspase 8 protects against brain injury in mouse models of controlled cortical impact and kainic acid-induced excitotoxicity. PLoS One. 2011-01-01 [PMID: 21957448] (WB, Mouse)

Cheng Tc, Lai Cs, Chung Mc et al. Potent anti-cancer effect of 3'-hydroxypterostilbene in human colon xenograft tumors PLoS One et al. 2014-11-13 [PMID: 25389774] (WB, Human)

Details:
Caspase-9 antibody used in WB for the detection of pro and cleaved forms of Caspase 9 protein in lysates of COLO205 cancer cells treated or not with Pterostilbene and 3'-hydroxypterostilbene (Figure 2C)

Samaga KKL, Rao GV, Chandrashekar Reddy G. Synthetic racemates of abyssinone I and II induces apoptosis through mitochondrial pathway in human cervix carcinoma cells. Bioorganic Chemistry. 2014-06-26 [PMID: 25019692] (WB, Human)

Details:
Fig 6: HeLa

Berger T, Kretzler M. Interaction of DAP3 and FADD only after cellular disruption. Nat Immunol. 2002-01-01 [PMID: 11753396]

Details:
WB in various cell lines: 1. DAP3 (IMG-295), Fig 1B and 1C.

Zhao X, Lapalombella R, Joshi T et al. Targeting CD37-positive lymphoid malignancies with a novel engineered small modular immunopharmaceutical. Blood. 2007-10-01 [PMID: 17440052]

Knoblach SM, Nikolaeva M, Huang X et al. Multiple caspases are activated after traumatic brain injury: evidence for involvement in functional outcome. J Neurotrauma. 2002-10-01 [PMID: 12427325]

More publications at <http://www.novusbio.com/NB100-56112>





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

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