

# Product Datasheet

## Caspase-3 Antibody - (Pro and Active) NB100-56112-0.1ml

Unit Size: 0.1 ml

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

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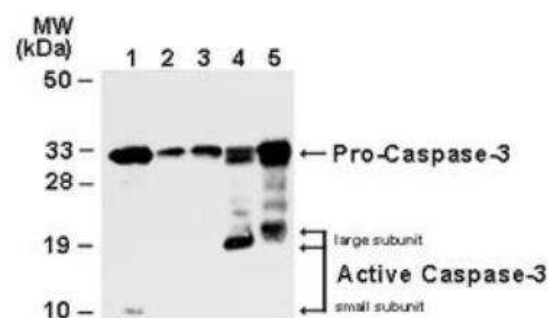
**NB100-56112-0.1ml****Caspase-3 Antibody - (Pro and Active)**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Target Molecular Weight</b>	31.7 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	836
<b>Gene Symbol</b>	CASP3
<b>Species</b>	Human, Mouse, Rat, Canine, Gerbil
<b>Immunogen</b>	This Caspase-3 Antibody - (Pro and Active) was developed against full-length human Caspase-3 protein (pro-form).
<b>Notes</b>	
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	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
<b>Application Notes</b>	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 <a href="#">Simple Western Antibody Database</a> 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.

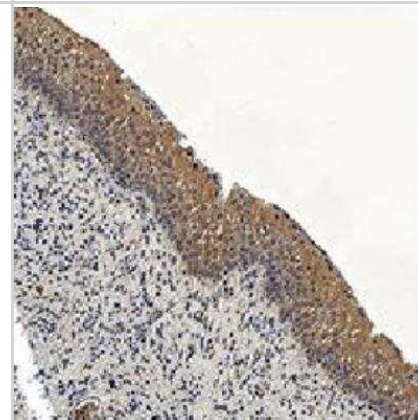


## Images

**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).



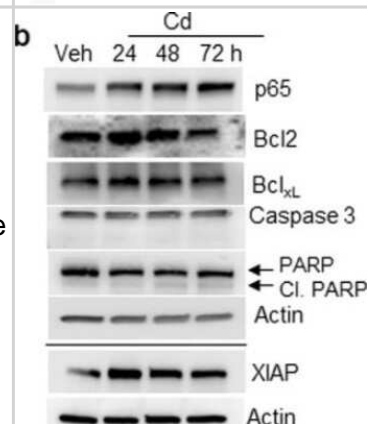
**Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112]** - Caspase-3 was detected in immersion fixed paraffin-embedded sections of human bladder tissue 1:300 dilution of rabbit polyclonal Caspase-3 Antibody - (Pro and Active)(NB100-56112), for 1 hour at room temperature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



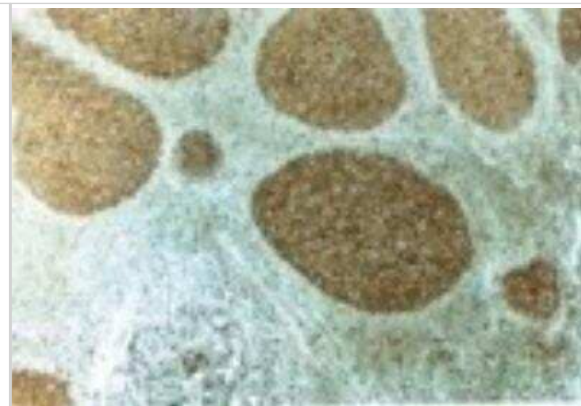
**Simple Western: Caspase-3 Antibody - (Pro and Active) [NB100-56112]** - Simple Western lane view shows a specific band for Caspase 3 in 0.2 mg/ml of HEK293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



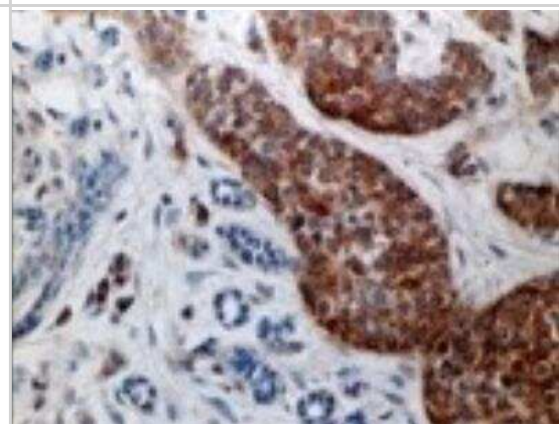
**Western Blot: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Effect of acute Cd exposure on BPH1 cell proliferation, Shh signaling activation, and stem cell markers in a time-dependent manner.** Cells were incubated with or without 10 uM Cd for the indicated time. Cell lysates were subjected 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 Ca<sup>2+</sup>/CaMKK $\beta$ /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, Chandrashekara 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>





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### **Products Related to NB100-56112-0.1ml**

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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

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### **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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