

Product Datasheet

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

Unit Size: 0.025 ml

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

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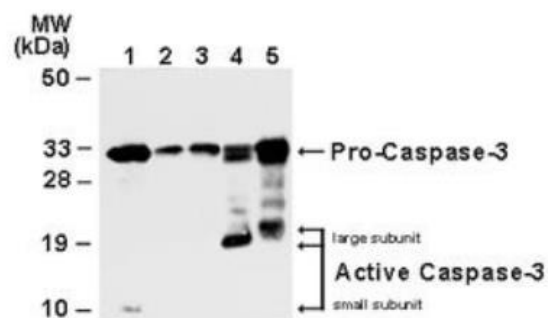


NB100-56112SS**Caspase-3 Antibody - (Pro and Active)**

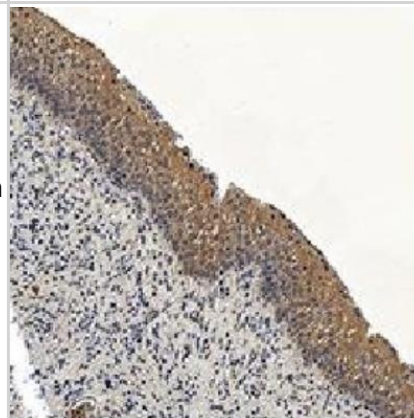
Product Information	
Unit Size	0.025 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Product Description	
Host	Rabbit
Gene ID	836
Gene Symbol	CASP3
Species	Human, Mouse, Rat, Canine, Gerbil
Specificity/Sensitivity	Caspase antibodies are classical tools for detecting inactive (pro) and active (cleaved) forms of the enzymes. The presence of the large or small subunits in western blots is considered to be a marker of caspase activation.
Immunogen	Recombinant full-length human Caspase-3 protein (pro-form) was used as immunogen.
Notes	
Product Application Details	
Applications	Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Simple Western 1:200, Chromatin Immunoprecipitation 1:10-1:500, Immunohistochemistry 1:1000-1:5000, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:1000-1:5000
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. Separated by Size-Wes, Sally Sue/Peggy Sue. Use in chromatin immunoprecipitation reported in scientific literature (PMID 27735949).

Images

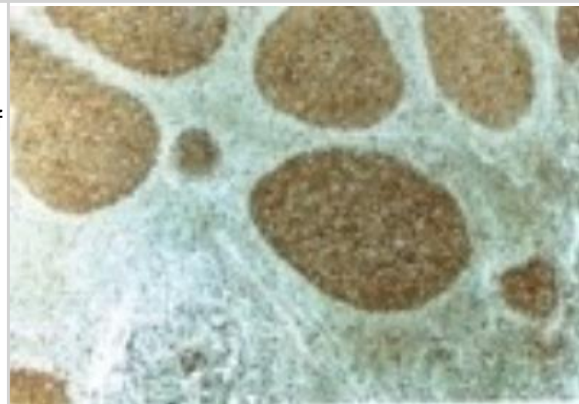
Western Blot: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Analysis of Caspase-3. Lysates from Jurkat cells (lane 1), normal mammary tissue (lane 2) and surgical specimens from three invasive ductal carcinomas (lanes 3-5) were normalized for total protein content (50 ug/lane) and western blotted with anti-Caspase-3. 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).



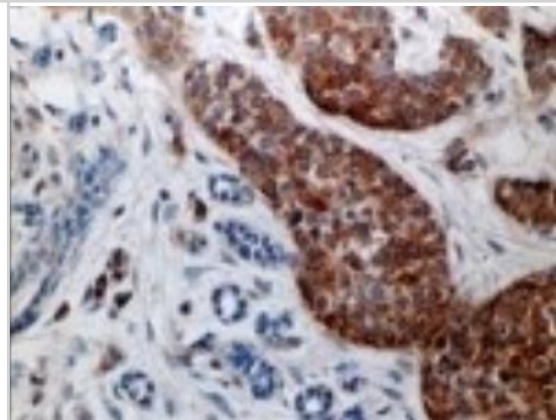
Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Caspase-3 was detected in immersion fixed paraffin-embedded sections of human bladder tissue 1:300 dilution of rabbit anti-Caspase-3 polyclonal (NB100-56112, Novus Biologicals), for 1 hour at room temperature followed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



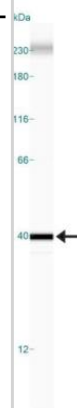
Immunohistochemistry-Paraffin: Caspase-3 Antibody - (Pro and Active) [NB100-56112] - Caspase-3 expression in formalin-fixed, paraffin-embedded human reactive lymph node using NB100-56112 at 1:2000. Staining is seen in the apoptosis-prone germinal center B lymphocytes of follicles.



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 cancerous ducts, but not in the normal lobulus.



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.



Publications

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* Oct 13 2016 12:00AM [PMID: 27735949] (ChIP, 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 [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 Nov 13 [PMID: 25389774] (WB, Human)

Details:

Caspase-3 antibody used in WB for the detection of pro and cleaved forms of Caspase 3 protein in lysates of COLO 205 xenografts in nude mice treated or not with Pterostilbene and 3'-hydroxypterostilbene (Figure 6D).

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 Jun 26 [PMID: 25019692] (WB, Human)

Details:

Fig 4: HeLa

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

Zhao X, Lapalombella R, Joshi T et al. Targeting CD37-positive lymphoid malignancies with a novel engineered small modular immunopharmaceutical. *Blood*. 2007 Oct 1 [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 Oct [PMID: 12427325]

Krajewski S, Gascoyne RD, Zapata JM et al. Immunolocalization of the ICE/Ced-3-family protease, CPP32 (Caspase-3), in non-Hodgkin's lymphomas, chronic lymphocytic leukemias, and reactive lymph nodes. *Blood*. 1997 May 15 [PMID: 9160689]

Liu Q, Zhao X, Frizzera F et al. FTY720 demonstrates promising preclinical activity for chronic lymphocytic leukemia and lymphoblastic leukemia/lymphoma. *Blood*. 2008 Jan 1 [PMID: 17761520]

Svingen PA, Karp JE, Krajewski S et al. Evaluation of Apaf-1 and procaspases-2, -3, -7, -8, and -9 as potential prognostic markers in acute leukemia. *Blood*. 2000 Dec 1 [PMID: 11090079]

Krajewska M, Rosenthal RE, Mikolajczyk J et al. Early processing of Bid and caspase-6, -8, -10, -14 in the canine brain during cardiac arrest and resuscitation. *Exp Neurol*. 2004 Oct [PMID: 15380478] (WB, IHC-P, Mouse, Canine, Rat)

Details:

WB and IHC (P) on mouse spleen and thymus lysates, dog and rat brain tissue and lysates, tissue culture transfectants, caspase-9 knockout mice, recombinant caspase proteins.



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