

Product Datasheet

Caspase-9 Antibody NB100-56119

Unit Size: 0.05 ml

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

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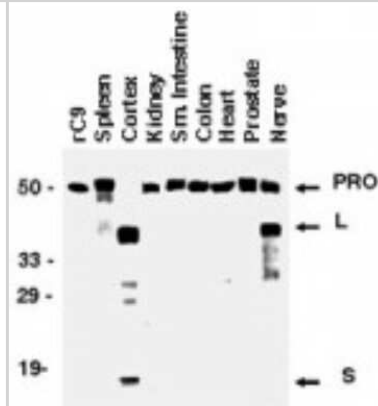
NB100-56119

Caspase-9 Antibody

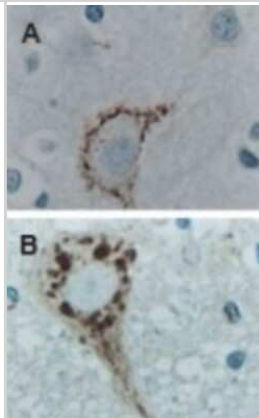
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	50 ul neat whole antisera
Target Molecular Weight	46.3 kDa
Product Description	
Host	Rabbit
Gene ID	842
Gene Symbol	CASP9
Species	Human, Mouse, Rat, Canine
Specificity/Sensitivity	This polyclonal antisera recognizes the proform of caspase-9 (~50 kDa), and the large (~35 kDa) and small (~15 kDa) subunits of active/cleaved Caspase-9. Intermediate caspase-9 cleavage forms may also be seen at ~21 kDa.
Immunogen	Recombinant mutated non-cleavable pro form of human Caspase 9 (NP_001220).
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Simple Western 1:200, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen
Application Notes	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 HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:200, apparent MW was 52 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

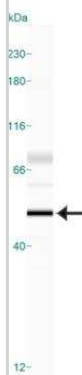
Western Blot: Caspase-9 Antibody [NB100-56119] - Analysis of Caspase-9. Various tissue lysates were prepared from human autopsy material and normalized for total protein. Most tissues contained the ~50 kDa pro-Caspase-9 protein. Cleaved Caspase-9 was identified in brain cortex and peripheral nerve tissue samples. Pro-C9: recombinant human pro-Caspase-9 (full-length) protein. PRO: pro-Caspase-9. L: large subunit of cleaved Caspase-9. S: small subunit of cleaved Caspase-9.



Immunohistochemistry-Paraffin: Caspase-9 Antibody [NB100-56119] - Mouse brain tissue sections at 1:2000. Hematoxylin-eosin counterstain. A) Brain striatum, B) Brain stem motor neuron.



Simple Western: Caspase-9 Antibody [NB100-56119] - Lane view shows a specific band for Caspase 9 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



Publications

Prasenjit Manna, Saikat Dewanjee, Swarnalata Joardar, Pratik Chakraborty, Hiranmoy Bhattacharya, Shrestha Bhanja, Chiranjib Bhattacharyya, Manas Bhowmik, Shovonlal Bhowmick, Achintya Saha, Joydeep Das, Parames C Sil Carnosic acid attenuates doxorubicin-induced cardiotoxicity by decreasing oxidative stress and its concomitant pathological consequences. *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association* 2022-07-19 [PMID: 35675861]

Liu Z, Liu Q, Zhang B et al. Blood-Brain Barrier Permeable and NO-Releasing Multifunctional Nanoparticles for Alzheimer's Disease Treatment: Targeting NO/cGMP/CREB Signaling Pathways *Journal of medicinal chemistry* 2021 -09-23 [PMID: 34517696]

Thomas A, Samykutty A, Gomez-Gutierrez JG et al. Actively Targeted Nanodelivery of Echinomycin Induces Autophagy-Mediated Death in Chemoresistant Pancreatic Cancer *In Vivo Cancers (Basel)* 2020-08-14 [PMID: 32823919] (WB, Human)

Taggart K, Estrada A, Thompson P et al. PDK4 Deficiency Induces Intrinsic Apoptosis in Response to Starvation in Fibroblasts from Doberman Pinschers with Dilated Cardiomyopathy. *Biores Open Access* 2017-12-01 [PMID: 29285418] (ICC/IF, Canine)

Huang X, Huang R, Gou S et al. Combretastatin A-4 Analogue: A Dual-Targeting and Tubulin Inhibitor Containing Antitumor Pt(IV) Moiety with a Unique Mode of Action *Bioconjug. Chem.* 2016-08-15 [PMID: 27494235] (WB, Human)

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)

Krajewski S, Krajewska M, Ellerby LM et al. Release of caspase-9 from mitochondria during neuronal apoptosis and cerebral ischemia. *Proc Natl Acad Sci U S A.* 1999-05-11 [PMID: 10318956]

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]

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.* 2004-10-01 [PMID: 15380478] (WB, IHC-P, Canine, Mouse, Rat)

Details:

Antibodies cited: 1. Caspase-9 (Active/Cleaved), IMG-5705: WB: Fig 1A (recombinant human caspase-9), Fig 4A (recombinant human caspase-9, rat brain), Fig 4B-F (isolated mitochondria from rat liver or heart). Fig 5 (PC12 cells) IHC (P): Fig 2d-k (rat kidney)

Buneker CK, Yu R, Deedigan L et al. IFN- γ combined with targeting of XIAP leads to increased apoptosis-sensitisation of TRAIL resistant pancreatic carcinoma cells. *Cancer Letters.* 2011-11-02 [PMID: 22104728]



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Products Related to NB100-56119

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

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