

Product Datasheet

Caspase-9 Antibody NB100-56119

Unit Size: 0.05 ml

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

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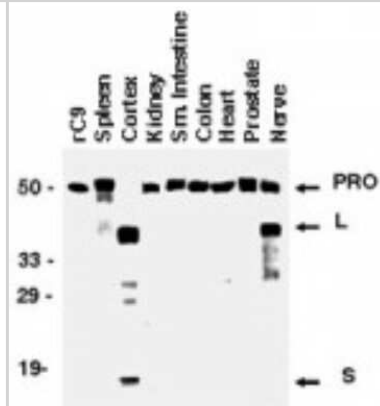
NB100-56119

Caspase-9 Antibody

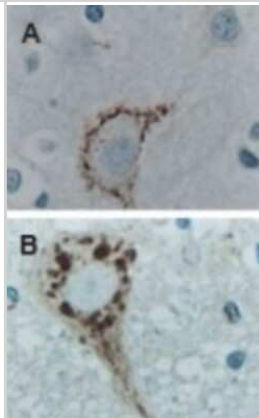
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	50 ul neat whole antisera
Target Molecular Weight	46.3 kDa
Product Description	
Host	Rabbit
Gene 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. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

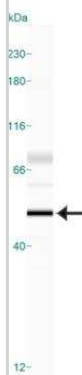
Western Blot: Caspase-9 Antibody [NB100-56119] - Analysis of Caspase-9. Various tissue lysates were prepared from human autopsy material and normalized for total protein. Most tissues contained the ~50 kDa pro-Caspase-9 protein. Cleaved Caspase-9 was identified in brain cortex and peripheral nerve tissue 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

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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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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