# **Product Datasheet**

# Caspase-9 Antibody NB100-56118

Unit Size: 0.05 ml

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





Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NB100-56118

Updated 10/23/2024 v.20.1

# Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications Submit a review at www.novusbio.com/reviews/destination/NB100-56118



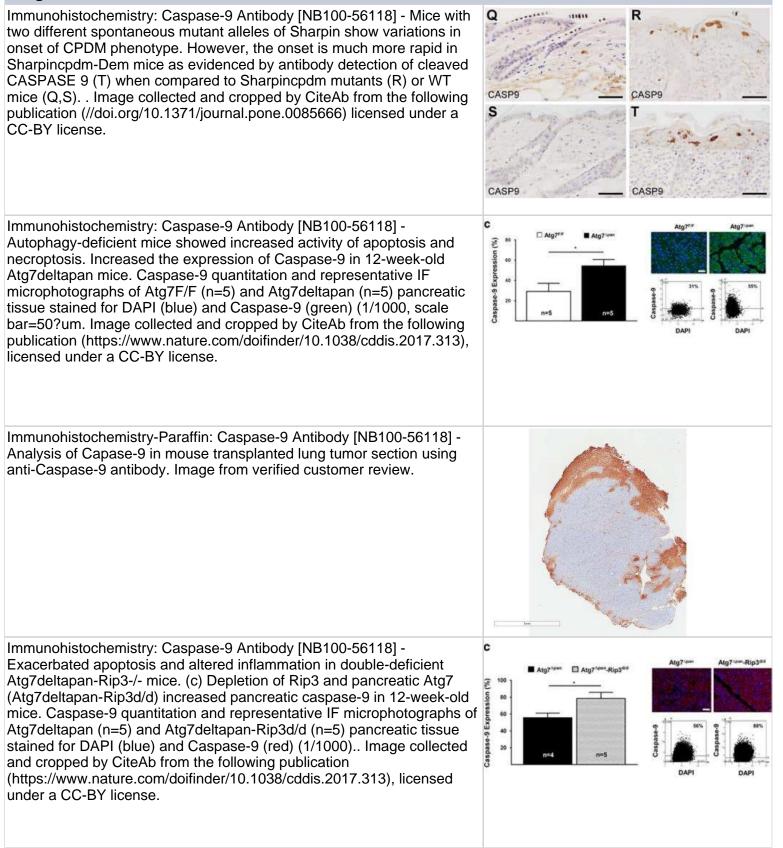
#### NB100-56118

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 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	842
Gene Symbol	CASP9
Species	Human, Mouse, Rat, Canine, Gerbil
Immunogen	Human Caspase 9 recombinant protein catalytic subunits (NP_001220).
Product Application Details	
Applications	Western Blot, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot reported in scientific literature (PMID 24184144), Immunohistochemistry, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 22223358), Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen Assay Dependent, Flow (Intracellular)
Application Notes	Caspase-9 immunostaining may appear diffuse or punctate. It may be localized in the cytosol, mitochondria, and nucleus. Caspase-9 staining in the nucleus is considered to be an indication of active Caspase-9. Both pro and active/cleaved Caspase-9 staining may also be seen in the mitochondria. 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: the proform of caspase-9 is detected at ~50 kDa, the large subunit at ~35 kDa, and the small subunit at ~15 kDa. Intermediate caspase-9 cleavage forms may also be seen at ~21 kDa.



#### Images

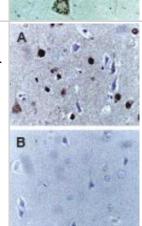




Immunohistochemistry-Paraffin: Caspase-9 Antibody [NB100-56118] -Analysis of Dog Brain sections stained for Active/Cleaved Caspase-9 expression at 1:2000. A and B. The pattern of Caspase-9 staining may vary between different types of neurons. Hematoxylin-eosin counterstain.

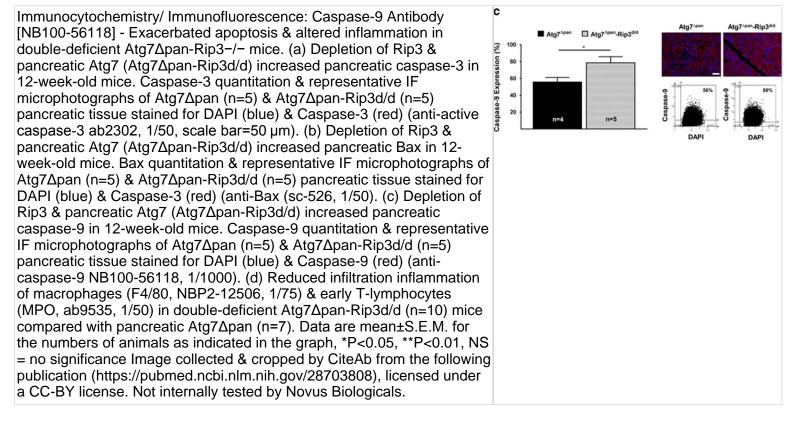
Immunohistochemistry-Paraffin: Caspase-9 Antibody [NB100-56118] -Analysis of Dog Brain sections stained for cleaved Caspase-9 expression using this antibody at 1:2000. A) Section from a dog brain 2 hr after reperfusion injury. B) ection from a dog brain sham control (brain surgery but no injury). Hematoxylin-eosin counterstain.

Immunohistochemistry-Paraffin: Caspase-9 Antibody [NB100-56118] -Analysis Human Brain sections stained for cleaved Caspase-9 expression using this antibody at 1:2000. A) Section from a patient 24 hr after head trauma. B) Control: section from a patient with no known neurological disease or head injury. Hematoxylin-eosin counterstain.





Page 4 of 6 v.20.1 Updated 10/23/2024





#### **Publications**

Zhou X, Xie L, Bergmann F et al. The bile acid receptor FXR attenuates acinar cell autophagy in chronic pancreatitis. Cell Death Discov. 2017-06-29 [PMID: 28660075]

Yan Huo, Abudureheman Mijiti, Ruonan Cai, Zhaohua Gao, Maierpu Aini, Abudukadier Mijiti, Zhaoling Wang, Rui Qie Scutellarin alleviates type 2 diabetes (HFD/low dose STZ)-induced cardiac injury through modulation of oxidative stress, inflammation, apoptosis and fibrosis in mice. Human & experimental toxicology 2022-03-07 [PMID: 34610774]

Jaworski S, Strojny B, Sawosz E et al. Degradation of Mitochondria and Oxidative Stress as the Main Mechanism of Toxicity of Pristine Graphene on U87 Glioblastoma Cells and Tumors and HS-5 Cells Int J Mol Sci 2019-02-02 [PMID: 30717385]

Espinosa-Jeffrey A, Arrazola RA, Chu B et al. Trophic factors intervention regenerates the nestin-expressing cell population in a model of perinatal excitotoxicity: Implications for perinatal brain injury and prematurity Integrative Molecular Medicine 2016-06-25 [PMID: 35558521] (Immunohistochemistry-Frozen, Immunocytochemistry/ Immunofluorescence)

Doke T, Huang S, Qiu C et al. Genome-wide association studies identify the role of caspase-9 in kidney disease Science Advances 2021-11-05 [PMID: 34739325] (Immunocytochemistry/ Immunofluorescence)

Srivastava S, Gajwani P, Jousma J et al. Nuclear translocation of mitochondrial dehydrogenases as an adaptive cardioprotective mechanism Nature communications 2023-07-19 [PMID: 37468519] (WB, Human)

Details:

Dilutions: 1:1000

Feng Y, Yang L, Ma X et al. Photobiomodulation treatment inhibits neurotoxic astrocytic polarization and protects neurons in in vitro and in vivo stroke models Neurochemistry international 2022-12-17 [PMID: 36539162] (IHC-Fr, Mouse)

Li J, Camirand A, Zakikhani M et al. Parathyroid hormone related protein inhibition blocks triple negative breast cancer expansion in bone through epithelial to mesenchymal transition reversal JBMR Plus 2022-06-20 [PMID: 35720668]

Eskiler GG, Turna O, Ozkan AD et al. The response of the canine mammary simple carcinoma and carcinosarcoma cells to 5-aminolaevulinic acid-based photodynamic therapy: An in vitro study Journal of photochemistry and photobiology. B, Biology 2022-07-05 [PMID: 35810598] (WB, Canine)

Gao K, Niu J, Dang X Wnt-3a improves functional recovery through autophagy activation via inhibiting the mTOR signaling pathway after spinal cord injury Neurosci. Lett. 2020-08-17 [PMID: 32818590] (WB, Rat)

Xie L, Xia L, Klaiber U et al. Effects of neoadjuvant FOLFIRONOX and gemcitabine-based chemotherapy on cancer cell survival and death in patients with pancreatic ductal adenocarcinoma Oncotarget 2019-12-31 [PMID: 31921387] (ICC/IF, Human)

Zhou X, Xie L, Xia L et al. RIP3 attenuates the pancreatic damage induced by deletion of ATG7 Cell Death and Disease 2017-07-13 [PMID: 28703808] (ICC/IF, Mouse)

More publications at http://www.novusbio.com/NB100-56118





## 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@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

#### Products Related to NB100-56118

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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-56118

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

