Product Datasheet

Caspase-3 Antibody - (active/cleaved) NB100-56113

Unit Size: 0.05 ml

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NB100-56113

Caspase-3 Antibody - (active/cleaved)

Product Information	Caspase-3 Antibody - (active/cleaved)		
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 Unpurified Product Weight 31.7 kDa Product Description Host Rabbit Rabbit Reactivity Notes Use in Rat reported in scientific literature (PMID:34597692). Rat reactivity reported in scientific literature (PMID:32818590). Immunogen This Caspase-3 Antibody - (active/cleaved) was developed against catalytically active human caspase-3 protein. Product Application Details Applications Western Blot, Flow Cytometry, Flow (Intracellular), Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunoprecipitation Western Blot 1:1000-1:2000, Flow Cytometry reported in scientific literature (PMID 299632772), Immunofluorescence reported in scientific literature (PMID 299634741), Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Par	Product Information		
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Images

Immunohistochemistry: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Immunohistochemistry analysis of sectioned tumor tissues from the MDA-MB-231 study. Each section was subjected to the specified antibody followed by a biotinylated secondary antibody. Detection was done using a DAB Peroxidase HRP Substrate Kit (brown) followed by Hematoxylin counterstaining (purple). Images were obtained using inverted bright field microscopy. Sectioning results are representative of three individual tumors. Scale bar is 50 microns. Statistical analysis using One-Way ANOVA. *p<0.05 vs tumor volume of the control. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41598-017-01230-4), licensed under a CC-BY license.

Cleaved Caspase-3 y-H2AX PCNA

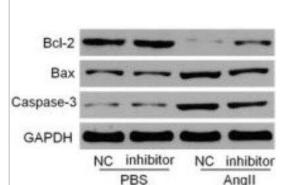
PUNDO

White Pundo

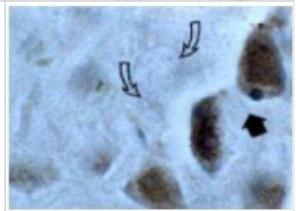
White

Western Blot: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - The protein expression levels of Bcl-2, Bax and cleaved caspase-3 were detected in the different groups using Western blotting and were normalized to the housekeeping gene GAPDH. Image collected and cropped by CiteAb from the following publication (onlinelibrary.wiley.com/doi/abs/10.1111/jcmm.14135), licensed under a CC-BY license.

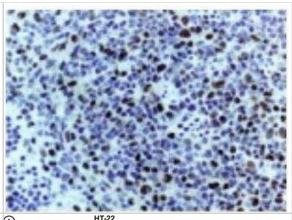
Western Blot: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Cell apoptosis was detected by flow cytometric analysis, and the percentage of apoptotic cells transfected with miR-200c inhibitor or NC inhibitor and treated with AngII or PBS for 48 h was determined. Image collected and cropped by CiteAb from the following publication (onlinelibrary.wiley.com/doi/abs/10.1111/jcmm.14135), licensed under a CC-BY license.



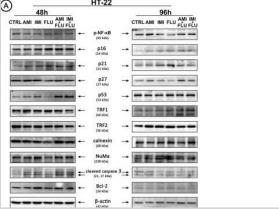
Immunohistochemistry-Paraffin: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Dog ischemic brain stained for Active/Cleaved Caspase-3 expression using Caspase-3 Antibody - (active/cleaved)(NB100-56113) at 1:2000. Staining is seen in the nuclei of dying neurons (black arrow) but not in the morphologically normal nuclei (open arrows). Caspase-3 expression in the nucleus is considered to be a marker of active/caspase-3 expression and apoptosis. Hematoxylin-eosin counterstain.



Immunohistochemistry-Paraffin: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Irradiated mouse spleen stained for Active/Cleaved Caspase-3 expression using Caspase-3 Antibody - (active/cleaved) (NB100-56113) at 1:2000. Staining is seen in the nuclei of a subset of the cell population. Caspase-3 expression in the nucleus is considered to be a marker of active/caspase-3 expression and apoptosis. Hematoxylineosin counterstain.



Antidepressants-mediated effect on cellular protein content. HT-22 cells were treated with antidepressants for 48 and 96 h and densitometry analysis of NF- κ B (b), p16 (c), p21 (d), p27 (e), p53 (f), TRF1 (g), TRF2 (h), calnexin (i), NuMa (j), cleaved caspase 3 (k), Bcl-2 (l) was evaluated. Representative Western Blots are presented (a). Bars indicate SD, n = 3, ***/^^p < 0.001, **/^p < 0.01, */^p < 0.05, no indication—no statistical significance (one-way ANOVA and Dunnett's a posteriori test)



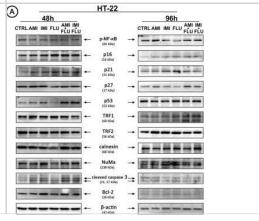
Immunohistochemistry: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Pathology in DOX treated acute & recovery phase mice. Regions of myofiber loss & frank replacement fibrosis were noted, most commonly in atria (A, acute phase), & rarely in ventricles (D, recovery phase). These areas were accompanied by macrophage infiltration (B, E) & myofibroblast proliferation (C) consistent with fibroplasia. Rare myofibers were matrix metalloproteinase 2 (F, recovery phase animal) or caspase-3 positive (G, acute phase animal). Reticulin staining (A, D); Immunohistochemistry: Iba 1(B, E; macrophages), alpha SMA (C), MMP-2 (F) & cleaved caspase -3 (G) Bar = 100μm (A-C); 50μm (D-F); 20μm (G). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31263061), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Caspase-3

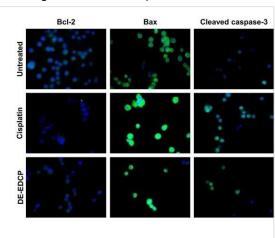
Caspase-3

20μm

Western Blot: Caspase-3 Antibody - (active/cleaved) [NB100-56113] - Antidepressants-mediated effect on cellular protein content. HT-22 cells were treated with antidepressants for 48 & 96 h & densitometry analysis of NF- κ B (b), p16 (c), p21 (d), p27 (e), p53 (f), TRF1 (g), TRF2 (h), calnexin (i), NuMa (j), cleaved caspase 3 (k), Bcl-2 (l) was evaluated. Representative Western Blots are presented (a). Bars indicate SD, n = 3, ***/^^p < 0.001, **/^p < 0.01, */^p < 0.05, no indication—no statistical significance (one-way ANOVA & Dunnett's a posteriori test) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31278507), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Caspase-3 Antibody -(active/cleaved) [NB100-56113] - Morphological changes & expression of key apoptosis-related molecules in 4T1 cells after DE-EDCP treatment (A) Morphological changes of 4T1 cells exposed to various concentrations of DE-EDCP for 24h. (B) Immunofluorescence staining for Bcl-2 (green), Bax (green) & cleaved caspase-3 (green) together with DNA staining with DAPI (blue) in 4T1 cells incubated with DE-EDCP or cisplatin (31.25 µM) for 24h, as well as in untreated cells (magnification at x200). (C) mRNA expression of Bcl-2, Bax & caspase-3 quantified by RT-PCR in 4T1 cells after DE-EDCP 24h treatment. DE-EDCP treatment markedly increased the expression of Bax & caspase-3 mRNA & decreased the expression of Bcl-2 mRNA in 4T1 cells. β-actin mRNA was used as an internal control. Data points are represented by the expression ratio & mean±SD fold of control in 4T1 cells. (* Bcl-2-: DE-EDCP vs. untreated p=0.03; DE-EDCP vs. cisplatin p=0.006; cislatin vs. untreated p=0.001; Bax-: DE-EDCP vs. untreated p=0.011; cislatin vs. untreated p=0.009; caspase-3-: DE-EDCP vs. untreated p=0.015; DE-EDCP vs. cisplatin p=0.021) Image collected & cropped by CiteAb from the following publication



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Publications

Enes Akkaya, Şevket Evran, Fatih Çalış, Serdar Çevik, Salim Katar, Ersin Karataş, Abdurrahim Koçyiğit, Mustafa Yasin Sağlam, Mustafa Aziz Hatiboğlu, Hakan Hanımoğlu, Mehmet Yaşar Kaynar Thymoquinone ameliorates delayed cerebral injury and cerebral vasospasm secondary to experimental subarachnoid haemorrhage. Neurologia i neurochirurgia polska 2021-01-07 [PMID: 33252137]

Martin KK, Parvin S, Garraway SM. Peripheral inflammation accelerates the onset of mechanical hypersensitivity after spinal cord injury and engages TNFa signaling mechanisms J. Neurotrauma 2018-12-06 [PMID: 30520675]

H Xiong, Z Ni, J He, S Jiang, X Li, J He, W Gong, L Zheng, S Chen, B Li, N Zhang, X Lyu, G Huang, B Chen, Y Zhang, F He LncRNA HULC triggers autophagy via stabilizing Sirt1 and attenuates the chemosensitivity of HCC cells. Oncogene 2017-09-15 [PMID: 28166203]

Mustafa Ahmed Abdel-Reheim, Merhan E. Ali, Ahmed Gaafar A. Gaafar, Ahmed Amine Ashour Quillaja saponin mitigates methotrexate-provoked renal injury; insight into Nrf-2/Keap-1 pathway modulation with suppression of oxidative stress and inflammation Journal of Pharmaceutical Health Care and Sciences 2024-04-09 [PMID: 38594773]

Davis JA, Bopp AC, Henwood MK et al. Pharmacological transection of brain-spinal cord communication blocks pain-induced hemorrhage and locomotor deficits after spinal cord injury in rats J. Neurotrauma 2020-05-05 [PMID: 32368946]

Liu D, Tang X, Huang Z et al. Histone deacetylase HDAC2 regulates microRNA-125a expression in neuroblastoma Brain and behavior 2022-01-21 [PMID: 35060363]

Chandrakumar S, Santiago Tierno I, Agarwal M et al. Mechanical regulation of retinal vascular inflammation and degeneration in diabetes Diabetes 2023-11-21 [PMID: 37986627] (WB, Mouse)

Wang S, Chang CW, Huang J et al. Gasdermin C sensitizes tumor cells to PARP inhibitor therapy in cancer models The Journal of clinical investigation 2023-10-26 [PMID: 37883181] (WB, Human)

Shaalan AK, Teshima THN, Tucker AS, Proctor GB. Inhibition of Aurora Kinase B activity disrupts development and differentiation of salivary glands Cell Death Discovery 2021-01-18 [PMID: 33462217] (Immunohistochemistry)

Silconi ZB, Rosic V, Benazic S et al. The Pt(S-pr-thiosal)2 and BCL1 Leukemia Lymphoma: Antitumor Activity In Vitro and In Vivo International Journal of Molecular Sciences 2022-07-24 [PMID: 35897737]

Albadawy R, Hasanin AH, Agwa SHA et al. Rosavin Ameliorates Hepatic Inflammation and Fibrosis in the NASH Rat Model via Targeting Hepatic Cell Death International Journal of Molecular Sciences 2022-09-05 [PMID: 36077546] (Immunohistochemistry)

Haushalter C, Schuhbaur B, Doll P, Rhinn M. Meningeal retinoic acid contributes to neocortical lamination and radial migration during mouse brain development Biology Open 2017-02-15 [PMID: 28011626] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

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Products Related to NB100-56113

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