

Product Datasheet

Caspase-8 Antibody NB100-56116

Unit Size: 0.05 ml

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

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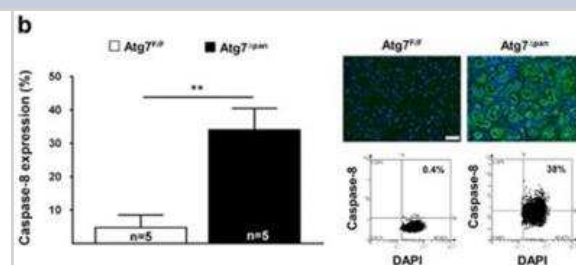
NB100-56116

Caspase-8 Antibody

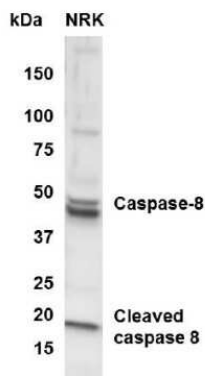
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	55.4 kDa
Product Description	
Host	Rabbit
Gene Symbol	CASP8
Species	Human, Mouse, Rat, Gerbil
Reactivity Notes	Possible reactivity with canine species.
Specificity/Sensitivity	Detects Caspase-8 and cleavage products.
Immunogen	Recombinant catalytically active human Caspase-8 protein.
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Simple Western reported by internal validation, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	In Simple Western internal validation: Cell lysates as sample type; separated by size; antibody dilution of 1:500; matrix was 12-230 kDa; detected by Chemiluminescence.

Images

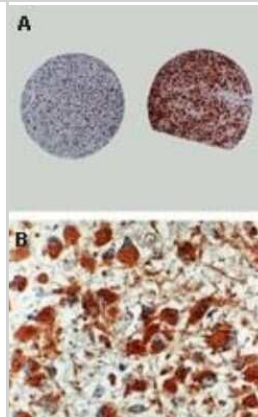
Immunohistochemistry: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Autophagy-deficient mice showed increased activity of apoptosis and necroptosis. Reduced pancreatic Atg7 level increased the expression of Caspase-8 in 12-week-old Atg7^{deltapan} mice. Caspase-8 quantitation and representative IF microphotographs of Atg7^{F/F} (n=5) and Atg7^{deltapan} (n=5) pancreatic tissue stained for DAPI (blue) and Caspase-8 (green) (1/1000, scale bar=50 um). Image collected and cropped by CiteAb from the following publication (<http://www.nature.com/doi/10.1038/cddis.2017.313>), licensed under a CC-BY license.



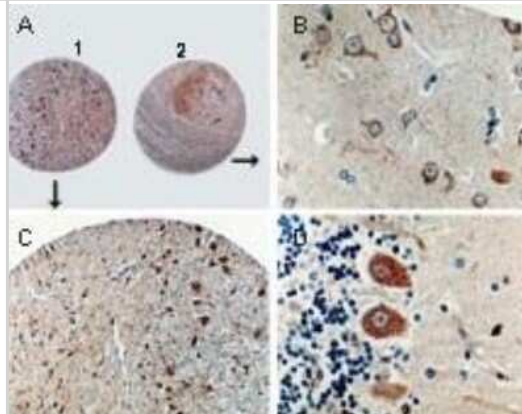
Western Blot: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Analysis of active/cleaved Caspase 8 in NRK whole cell lysate using anti-active/cleaved Caspase 8 antibody. WB image submitted by a verified customer review.



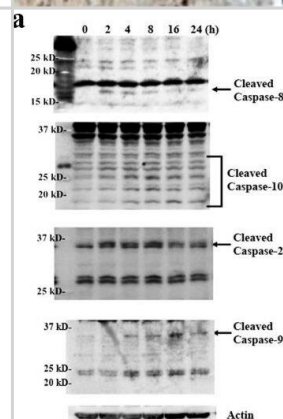
Immunohistochemistry-Paraffin: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Sections from a brain tumor tissue array stained for Caspase-8 expression using NB100-56116 at 1:2000. A. Anaplastic glioma (Grade III, left) and Gemistocytoma (Grade II, right) cores showing negative and positive staining for Caspase-8, respectively. B. Higher magnification of the Gemistocytoma tumor (from A).



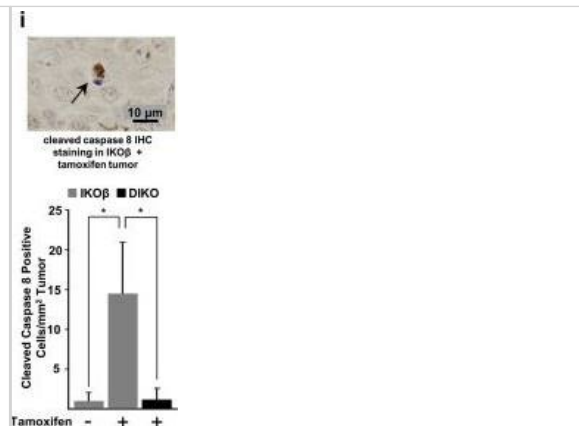
Immunohistochemistry-Paraffin: Caspase-8 Antibody - (active/cleaved) [NB100-56116] - Sections from a brain tissue array stained for Caspase-8 expression using NB100-56116 at 1:2000. A. Normal brain stem (1) and cortex (2). B. Higher magnification of cortex (from A). C. Higher magnification of brain stem (from A). D. Normal cerebellum showing caspase-8 staining in the Purkinje cells.



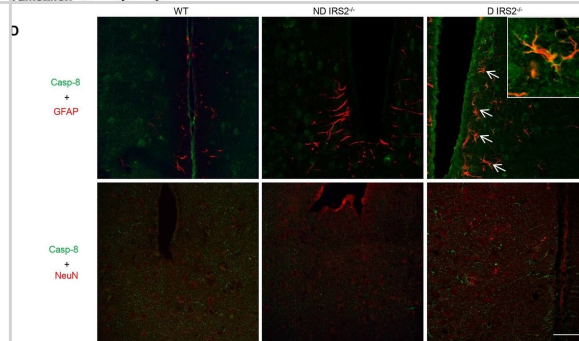
Upstream signaling mechanisms induced by secreted eIF5A in cardiac myocytes.(a) Secreted re-eIF5A (10 ug/ml) activated initiator caspases, including caspase-8 (IMG-5703; IMGEX), caspase-10 (ab25045; Abcam), caspase-2 (ab2251; Abcam), and caspase-9 (#9508; Cell Signaling), in cultured cardiac myocytes. The anti-actin antibody was sc-1616 from Santa Cruz. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26348594>), licensed under a CC-BY licence.



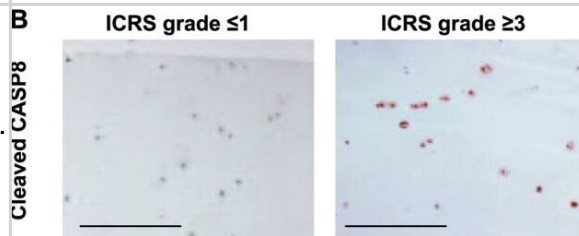
Regressing tumors display enrichment of a type I interferon response, p53, and TNF/death receptor signaling networks. i) Example photograph of IHC staining for cleaved caspase 8 (above) and quantification of IHC staining for cleaved caspase 8 (below) (vehicle n = 5 tumors, IKObeta n = 9 tumors, DIKO n = 8 tumors). Data are expressed as mean \pm SD. *Significantly different from controls p < 0.05 via the Student's t-test Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30323292>), licensed under a CC-BY licence.



Analysis of the cell type susceptible to apoptotic cell death in the hypothalamus of IRS2^{-/-} mice. (D) Colocalization of cleaved caspase-8 and GFAP, and of cleaved caspase-8 and NeuN, in the hypothalamus of WT, ND IRS2^{-/-} and D IRS2^{-/-} mice. Arrows indicate colocalization of GFAP and cleaved caspase-8. Scale bar: 50 μ m; inset, 100 μ m. Image collected and cropped by CiteAb from the following publication (<https://journals.biologists.com/dmm/article/doi/10.1242/dmm.023515/257174/Increased-oxidative-stress-and-apoptosis-in-the>), licensed under a CC-BY licence.



TRAM is required for the pro-inflammatory polarization of macrophages by SLD-LPS. (A,B) Flow cytometry analysis of Ly6C (A) or CD200R (B) expression in WT or TRAM^{-/-} live-cell-gated macrophages with geometric MFI quantification on right. Pink = PBS, Blue = 100 pg/ml LPS. (C–E) Representative Western blots of IKK- β (C), p-p65 (D), and total NF- κ B p65 (E) expression in WT and TRAM^{-/-} monocytes treated with either PBS or 100 pg/mL LPS for 5 days. Quantification is depicted on the right. (F) Ratio of p-p65/total p65 (p-p65 levels from (D) divided by corresponding total p65 levels). All data are representative of at least 3 separate experiments (n = 3) for (A,B) and n = 6 for (C–F). ANOVA with Tukey's multiple comparisons test (A,B); unpaired student t-test (C–F) *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001, n.s, non-significant; MFI, Mean fluorescence intensity. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32765513>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

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)

Luk CT, Chan CK, Chiu F et al. Dual role of caspase 8 in adipocyte apoptosis and metabolic inflammation Diabetes 2023-09-12 [PMID: 37699387]

Montecillo-Aguado M, Tirado-Rodriguez B, Antonio-Andres G et al. Omega-6 Polyunsaturated Fatty Acids Enhance Tumor Aggressiveness in Experimental Lung Cancer Model: Important Role of Oxylipins International Journal of Molecular Sciences 2022-05-31 [PMID: 35682855] (IHC)

Zhang L, Zhu D, Jiang J et al. The ubiquitin E3 ligase MDM2 induces chemoresistance in colorectal cancer by degradation of ING3 Carcinogenesis 2023-06-06 [PMID: 37279970]

Subramanya S, Fernando R, Goswami M et al. Flow cytometric method for the detection and quantification of retinal cell death and oxidative stress Experimental eye research 2023-06-29 [PMID: 37393050] (FLOW, Mouse)

Zhou J, Xiang W, Zhang K et al. IL1RAP Knockdown in LPS-Stimulated Normal Human Astrocytes Suppresses LPS-Induced Reactive Astrogliosis and Promotes Neuronal Cell Proliferation Neurochemical research 2022-12-11 [PMID: 36502418]

Lee SH, Ok SH, Ahn SH et al. Lipid emulsion inhibits the cardiac toxicity caused by chloroquine via inhibition of reactive oxygen species production Korean journal of anesthesiology 2022-11-15 [PMID: 36377332] (WB, Rat)

WU S, HU S, FAN W et al. Nitrite exposure may induce infertility in mice J Toxicol Pathol 2022-02-28 [PMID: 35221497]

Crudele A, Smeriglio A, Ingegneri M et al. Hydroxytyrosol Recovers SARS-CoV-2-PLpro-Dependent Impairment of Interferon Related Genes in Polarized Human Airway, Intestinal and Liver Epithelial Cells Antioxidants 2022-07-27 [PMID: 36009185] (WB, Human)

Ok SH, Ahn SH, Lee SH et al. Lipid emulsion attenuates propranolol-induced early apoptosis in rat cardiomyoblasts Human & experimental toxicology 2022-06-23 [PMID: 35738838]

Chen L, Shi H, Wang X et al. Hepatocyte nuclear factor 4 gamma (HNF4G) is correlated with poor prognosis and promotes tumor cell growth by inhibiting caspase-dependent intrinsic apoptosis in colorectal cancer European journal of pharmacology 2021-12-26 [PMID: 34965388] (WB, Human)

Kearon Je, Kocherry Sc, Zoumboulakis D Et Al. GDNF requires HIF-1 alpha and RET activation for suppression of programmed cell death of enteric neurons by metabolic challenge Molecular and cellular neurosciences 2021-07-15 [PMID: 34273501] (ICC/IF)

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

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