

Product Datasheet

Caspase-1 Antibody NBP1-45433

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-45433**Caspase-1 Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.03% Proclin 300
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2), 0.5 mM EDTA, 0.5% BSA, 30% glycerol

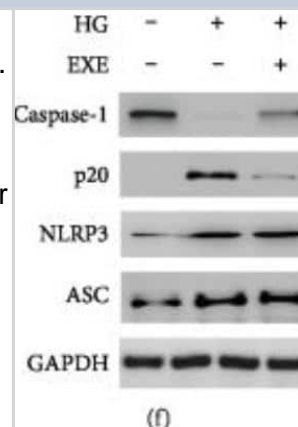
Product Description	
Host	Rabbit
Gene ID	834
Gene Symbol	CASP1
Species	Human, Mouse, Rat, E. coli
Reactivity Notes	E. coli reactivity reported in scientific literature (PMID: 31551961).
Specificity/Sensitivity	Caspase-1 Antibody recognizes the 45 kDa procaspase-1 and the 20 kDa cleaved product.
Immunogen	Caspase-1 Antibody was developed against a synthetic peptide surrounding amino acid 132 of human caspase-1 (NP_150636).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 0.5 - 4 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 - 20 ug/ml, Immunoprecipitation 4 - 8 ug/ml, Immunohistochemistry-Paraffin, Knockdown Validated
Application Notes	Knockdown validation (PMID: 31886288). Use in Immunohistochemistry reported in scientific literature (PMID: 32201254).

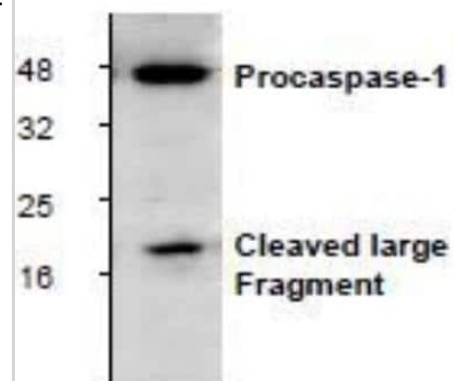


Images

Western Blot: Caspase-1 Antibody [NBP1-45433] - Exendin-4 inhibits diabetic cardiomyocyte pyroptosis: (f) Western blot of pyroptotic proteins. The primary cardiomyocytes were incubated in the absence (CON) or presence of 40mM glucose (HG) in combination with Exendin-4 (25nM) (HG+EXE). Image collected and cropped by CiteAb from the following publication ([ncbi.nlm.nih.gov/pubmed/3125927/](https://pubmed.ncbi.nlm.nih.gov/3125927/)), licensed under a CC-BY license.



Western Blot: Caspase-1 Antibody [NBP1-45433] - Analysis of Caspase-1 expression in Rat liver tissue lysate.



Publications

McElwain CJ, Musumeci A, Manna S et al. L-ergothioneine reduces mitochondrial-driven NLRP3 activation in gestational diabetes mellitus *Journal of reproductive immunology* 2023-11-24 [PMID: 38029485] (WB, Human)

Chen C, Wang W, Raymond M et al. Genetic Knockout of Fatty Acid Amide Hydrolase Ameliorates Cisplatin-Induced Nephropathy in Mice *Molecular pharmacology* 2023-04-01 [PMID: 36702548] (WB, Mouse)

Muñoz-García R, Sánchez-Hidalgo M, Alcarranza M et al. Effects of Dietary Oleacein Treatment on Endothelial Dysfunction and Lupus Nephritis in Balb/C Pristane-Induced Mice *Antioxidants (Basel, Switzerland)* 2023-06-19 [PMID: 37372034] (WB, Mouse)

Singh G, Storey KB TXNIP shuttling - a key molecular link in regulating inflammation and mitochondrial dysfunction in freeze tolerant wood frogs *Gene* 2023-01-07 [PMID: 36627089] (WB, Amphibian)

Wang Y, Sadike D, Huang B et al. Regulatory T cells alleviate myelin loss and cognitive dysfunction by regulating neuroinflammation and microglial pyroptosis via TLR4/MyD88/NF- κ B pathway in LPC-induced demyelination *Journal of neuroinflammation* 2023-02-18 [PMID: 36803990] (IHC, Mouse)

Singh G Role of Glucose-induced Transcription Factor Signalling and Mitochondrial Epigenetics in Stress Tolerant Wood Frog, *Rana sylvatica* Thesis 2022-12-16 (WB, Amphibian)

Details:
Wood Frog

Hwang S, Kim SH, Yoo KH et al. Exogenous 8-hydroxydeoxyguanosine attenuates doxorubicin-induced cardiotoxicity by decreasing pyroptosis in H9c2 cardiomyocytes *BMC molecular and cell biology* 2022-12-14 [PMID: 36517746] (WB, Mouse)

Montoya T, Sanchez-Hidalgo M, CastejOn ML et al. Oleocanthol Supplemented Diet Improves Renal Damage And Endothelial Dysfunction In Pristane-Induced Systemic Lupus Erythematosus In Mice *Food Research International* 2022-11-01 [PMID: 36596095] (Mouse)

Xiao Q, Kang Z, Liu C et al. Panax notoginseng Saponins Attenuate Cerebral Ischemia-Reperfusion Injury via Mitophagy-Induced Inhibition of NLRP3 Inflammasome in Rats *Frontiers in Bioscience-Landmark* 2022-11-03 [PMID: 36472098] (WB, Rat)

Details:
Dilution used 1:500

Babaei F, Mirzababaei M, Dargahi L et al. Preventive Effect of *Saccharomyces boulardii* on Memory Impairment Induced by Lipopolysaccharide in Rats *ACS chemical neuroscience* 2022-11-01 [PMID: 36318666]

Eggelbusch M, Shi A, Broeksma BC et al. The NLRP3 inflammasome contributes to inflammation-induced morphological and metabolic alterations in skeletal muscle *Journal of cachexia, sarcopenia and muscle* 2022-08-17 [PMID: 35978267] (WB, Human)

ZHOU X, Yin K, Jiang W et al. Jiangzhi Ligan Decoction Alleviated Nonalcoholic Fatty Liver Disease Induced by High-Fat-Diet in Rats via GSDMD-mediated Canonical/Non-canonical Pyroptosis Pathway Dis Markers 2021-07-09 [PMID: 34239622]

More publications at <http://www.novusbio.com/NBP1-45433>



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

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.

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