Product Datasheet

Caspase-3 Antibody (31A1067) - (Pro and Active) - Azide and BSA Free NBP2-33244

Unit Size: 0.1 mg

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

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NBP2-33244

Caspase-3 Antibody (31A1067) - (Pro and Active) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	31A1067
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS - BSA free
Target Molecular Weight	31.7 kDa
Product Description	
Host	Mouse
Gene ID	836
Gene Symbol	CASP3
Species	Human, Mouse, Rat, Porcine, Chicken, Chinese Hamster, Mammal
Specificity/Sensitivity	The antibody detects both pro Caspase-3 (~32 kDa) and the large subunit of the active/cleaved form (~14-21 kDa) of Caspase-3.
Immunogen	This Caspase-3 Antibody (31A1067) - (Pro and Active) - Azide and BSA Free was developed against full-length recombinant human caspase-3 protein.
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1-5 ug/ml, Simple Western, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 23840553), Immunohistochemistry-Paraffin 1:10-1:500. Use reported in scientific literature (Lee et al), Immunohistochemistry-Frozen 1:10-1:500. Use reported in scientific literature (Zhang et al), Knockout Validated, Knockdown Validated
Application Notes	The large subunit of the cleaved form may appear as one or two or even as a stack of bands depending on the presence or absence of the Caspase-3 pro- domain. It is highly recommended that a maximum sensitivity ECL substrate (Femto sensitive) be used for efficient detection of this antibody in Western blot applications.

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Images

Paclitaxel in combination with MWE retarded tumor growth in a human b bladder carcinoma TSGH 8301 xenograft model. The levels of total (t-PTEN) and phospho-PTEN (p-PTEN) and Caspase 3 in the tumor specimens were determined by Western blotting and then quantified using beta-actin as the protein loading control; the results are expressed as a percentage of the control. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/srep20417), licensed under a CC-BY license. Image using the standard format of this product. Tissue section of human spleen using 1:200 dilution of Caspase-3 antibody (clone 31A1067). The staining was developed with HRP labeled anti-mouse IgG secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This Caspase 3 antibody generated primarily a specific cytoplasmic staining in a subset of spleenocytes with some nuclear signal in a few cells. Image using the standard format of this product. An intracellular stain was performed on HeLa cells with Caspase-3 100 Antibody (31A1067) - (Pro and Active) NB100-56708 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and 80 then permeablized with 0.1% saponin. Cells were incubated in an Relative Cell Number 60 antibody dilution of 5 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary 40 antibody (F0101B, R&D Systems). Image using the standard format of this product. 20 0 104 105 10 0 Caspase-3 (31A1067) Copyright @ 2018 Novus Biologicals Western blot of Caspase-3 in multiple human tissues. The tissues shown MW kDa) are A) brain, B) heart, C) intestine, D) kidney, E) liver, F) lung, G) G 200 muscle, H) stomach, I) spleen, J) ovary, and K) testis. 66 55 36 21 14







Analysis in human breast cancer stained at 4ug/ml. Localization can be cytoplasmic and nuclear. Staining in the nucleus is considered to be an indication of active Caspase-3. In most cell types and model systems, cells with active Caspase-3 are undergoing apoptosis.

Analysis in normal colon stained 4ug/ml. Localization can be cytoplasmic and nuclear. Staining in the nucleus is considered to be an indication of active Caspase-3. In most cell types and model systems, cells with active Caspase-3 are undergoing apoptosis.

Analysis in the human thymus after heat-induced antigen retrieval at 5 ug/ml.

Caspase-3 was detected in immersion fixed paraffin-embedded sections of human bladder tissue using 1:50 dilution of mouse aCaspase-3 Antibody (31A1067) - (Pro and Active) (NB100-56708), for 1 hour at room temperature followed by anti-mouse IgG VisUCyte HRP polymer (VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Image using the standard format of this product.

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Publications

Burgener SS, Leborgne NGF, Snipas SJ et al. Cathepsin G Inhibition by Serpinb1 and Serpinb6 Prevents Programmed Necrosis in Neutrophils and Monocytes and Reduces GSDMD-Driven Inflammation. Cell Rep. 2019-06-18 [PMID: 31216481] (Human, Mouse)

Details:

Citation used the Azide and BSA Free format of this antibody.





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

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NBP3-11853	Jurkat Staurosporine Treated / Untreated Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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