Product Datasheet

Caspase-3 Antibody (CPP32 4-1-18) NB500-210SS

Unit Size: 0.05 ml

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

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NB500-210SS

Caspase-3 Antibody (CPP32 4-1-18)

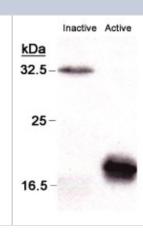
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Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CPP32 4-1-18
Preservative	0.02% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	

Product Description	
Mouse	
836	
CASP3	
Human, Mouse, Rat	
Human, mouse and rat.	
Full-length recombinant human Caspase 3 [UniProt# P42574]	

Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin
Western Blot 1:500-1:1000, Simple Western 1:2000, Immunohistochemistry 1:200-1:500, Immunohistochemistry-Paraffin 1:200-1:500
This Caspase 3 (CPP32 4-1-18) antibody is useful for Immunohistochemistry on paraffin-embedded sections and Western Blot, where a band is seen at ~32 kDa for the inactive form of Caspase 3 and ~17-22 kDa for the active form of Caspase 3. (See protocol for additional information). In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

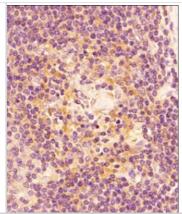
Images

Western Blot: Caspase-3 Antibody (CPP32 4-1-18) [NB500-210] - Western blot detection of Caspase (19 and 35 kDa) from HEK293 cell extract using NB500-210. Lanes 1 and 2 contain inactive and active Caspase, respectively.





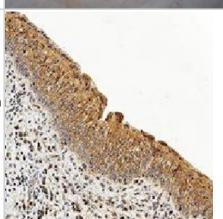
Immunohistochemistry-Paraffin: Caspase-3 Antibody (CPP32 4-1-18) [NB500-210] - IHC analysis of a formalin fixed and paraffin embedded human spleen section using 1:200 dilution of Caspase-3 antibody (clone CPP32 4-1-18). The staining was developed using HRP conjugated antimouse secondary antibody and DAB reagent. This Caspase 3 antibody generated a specific staining in the cytoplasm of various spleenocytes.



Immunohistochemistry-Paraffin: Caspase-3 Antibody (CPP32 4-1-18) [NB500-210] - Rat epithelial cells of the tongue base. Antigen retrieval method: Citrate buffer.



Immunohistochemistry-Paraffin: Caspase-3 Antibody (CPP32 4-1-18) [NB500-210] - Caspase-3 was detected in immersion fixed paraffinembedded sections of human bladder 1:300 dilution of mouse anti-Caspase-3 monoclonal (NB500-210, Novus Biologicals), 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).



Simple Western: Caspase-3 Antibody (CPP32 4-1-18) [NB500-210] - Simple Western lane view shows a specific band for Caspase 3 in 0.5 mg/ml of Hek293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Martins FF, Aguila MB, Mandarim-de-Lacerda CA. Impaired steroidogenesis in the testis of leptin-deficient mice (ob/ob -/-). Acta Histochem. May 13 2017 12:00AM [PMID: 28506466]

Graus-Nunes F, Marinho TS, Barbosa-da-Silva S et al. Differential effects of angiotensin receptor blockers on pancreatic islet remodelling and glucose homeostasis in diet-induced obese mice. Mol. Cell. Endocrinol. Oct 22 2016 12:00AM [PMID: 27780713] (IHC, Mouse)

Kim H, Lee KH, Park IA et al. Expression of SIRT1 and apoptosis-related proteins is predictive for lymph node metastasis and disease-free survival in luminal A breast cancer. Virchows Arch. 2015 Aug 18 [PMID: 26280894] (IHC-P, Human)

Details:

Caspase 3 antibody was used at 1:300 dilution for IHC-P analysis of tissue sections from human cases of luminal A invasive breast ductal carcinoma. The assay was performed on benchmark automatic immunostaining device and the signal detection was performed using biotinylated anti-mouse secondary antibody -peroxidase-labeled streptavidin - DAB method.

Shibayama Y, Kondo T, Ohya H et al. Upregulation of microRNA-126-5p is associated with drug resistance to cytarabine and poor prognosis in AML patients. Oncol Rep 2015 May [PMID: 25759982]

Chen YL, Yan MY, Chien SY et al. Sann-Joong-Kuey-Jian-Tang inhibits hepatocellular carcinoma Hep-G2 cell proliferation by increasing TNF-alpha, Caspase-8, Caspase- 3 and Bax but by decreasing TCTP and Mcl-1 expression in vitro. Mol Med Rep 2013 May [PMID: 23525225] (Human)

Wu SH, Chyau CC, Chen JH et al. Anti-cancerous effects of Wasabia japonica extract in Hep3B liver cancer cells via ROS accumulation, DNA damage and p73-mediated apoptosis Journal of Functional Foods 2015 Mar 02 (WB, Human)

Hsuan SW, Chyau CC, Hung HY et al. The induction of apoptosis and autophagy by Wasabia japonica extract in colon cancer Eur J Nutr 2015 Feb 27 [PMID: 25720497] (WB, Human)

Hu H, Takano N, Xiang L et al. Hypoxia-inducible factors enhance glutamate signaling in cancer cells. Oncotarget 2014 Oct 15 [PMID: 25326682] (WB, Human)

Chien SY, Kuo SJ, Chen DR, Su CC. Sann-Joong-Kuey-Jian-Tang decreases the protein expression of Mcl?1 and TCTP and increases that of TNF-alpha and Bax in BxPC?3 pancreatic carcinoma cells. Int J Mol Med 2013 Jul [PMID: 23652631]

Peng Z, Shuangzhu Y, Yongjie J et al. TNF receptor-associated factor 6 regulates proliferation, apoptosis, and invasion of glioma cells. Mol Cell Biochem 2013 Jan 29 [PMID: 23358926] (WB, Human)

Dash R, Azab B, Quinn B et al. Apogossypol derivative BI-97C1 (Sabutoclax) targeting McI-1 sensitizes prostate cancer cells to mda-7/IL-24-mediated toxicity Proc Natl Acad Sci U S A 2011 May 24 [PMID: 21555592] (WB, Human)

Fuzio P, Ditonno P, Rutigliano M et al. Regulation of TGF-B1 expression by Androgen Deprivation Therapy of prostate cancer Cancer Letters 2012 May 18 [PMID: 22269108] (IHC, Human)

More publications at http://www.novusbio.com/NB500-210



Procedures

Western Blot Protocol for Caspase 3 Antibody (NB500-210)

Procedure Guide for NB 500-210 Monoclonal anti-Caspase 3

Western Protocol

- 1) Run a 10-*15% SDS polyacrylamide gel, loading ~20 ug of cell extract per lane.
- 2) Transfer the proteins to a membrane.
- 3) Block the membrane in PT-T20 [20 mM Tris-HCl, pH 7.4 / 150 mM NaCl/0.5% Tween 20] + 5% NFDM [non-fat dry milk], for 3 hour at room temperature (RT), shaking gently.
- 4) Rinse the membrane twice with PT-T20.
- 5) Incubate the membrane in anti-Caspase 3 [NB 500-210], diluted 1:500-1:1,000 in PT-T20 \pm 5% NFDM, for 60 minutes at RT.
- 6) Wash the membrane for 15 minutes, 3 times, in PT-T20 at RT.
- 7) Incubate the membrane in anti-mouse conjugated to HRP (secondary antibody), diluted in PT-T20 + 5% NFDM for 60 minutes at RT.
- 8) Wash the membrane for 15 minutes, 3 times, in PT-T20 at RT.
- 9) Develop membrane in chemiluminescent reagents, as instructed by kit-vendor.

*Positive control(s): Human kidney 293 cells

To Activate the Cell Extracts:

Bring the extract to a final concentration of 5 mM dATP.

Incubate the extracts at 37C for 15-30 minutes.





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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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