Product Datasheet

p97/VCP Antibody
NB100-1558

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 12

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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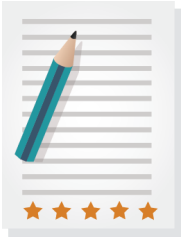
Updated 9/9/2025 v.20.1



NB100-1558

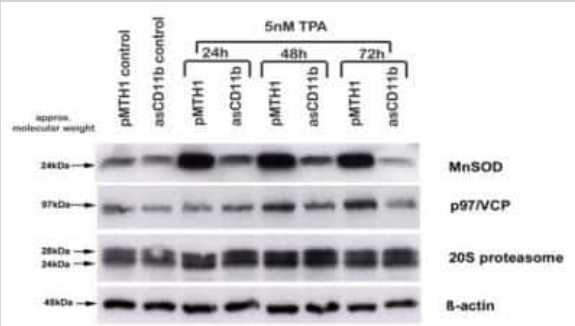
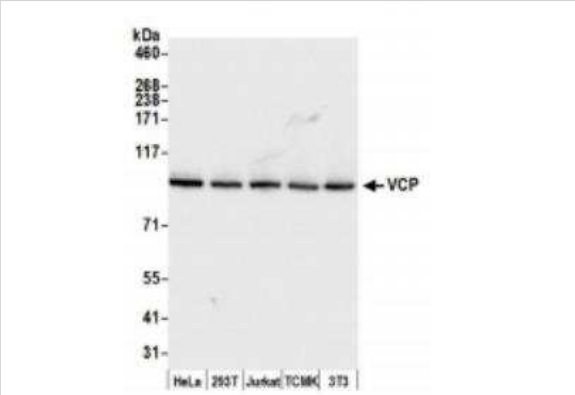
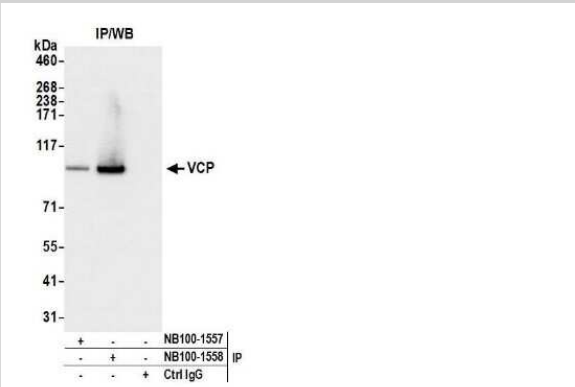
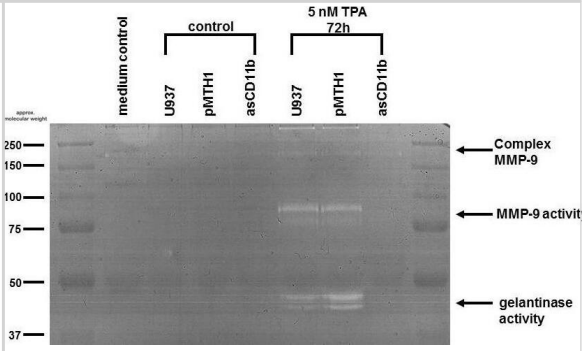
p97/VCP Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	89 kDa

Product Description	
Description	Novus Biologicals Rabbit p97/VCP Antibody (NB100-1558) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-p97/VCP Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7415
Gene Symbol	VCP
Species	Human, Mouse, Rat, Zebrafish
Reactivity Notes	Zebrafish reactivity reported in scientific literature (PMID: 30010465). Mouse, Rat reactivity reported in scientific literature (PMID: 20833645).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 750 and the C-terminus (residue 806) of human Valosin-Containing Protein using the numbering given in entry NP_009057.1 (GeneID 7415).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100 - 1:500, Immunoprecipitation 2-5 ug/mg of lysate, Immunohistochemistry-Frozen
Application Notes	ICC/IF reactivity reported in (PMID: 23297223), IHC-Frozen reactivity reported in (PMID: 20833645).

Images

Western Blot: p97/VCP Antibody [NB100-1558] - Zymographic assay of gelatinase activity. Medium supernatants of 20ml culture medium (medium control) as well as 20 ml conditioned medium from 107 U937 cells, pMTH1-U937 cells and asCD11b-U937 cells in the absence or presence of 5nM TPA for 72 h, respectively, were 18-fold concentrated and subjected to SDS-PAGE containing 2 mg/ml of gelatine. Following incubation with MMP enzyme buffer, the gels were stained with 0.4% Coomassie blue and afterwards destained again to visualize the appearance of gelatinase activity by light bands against the dark background. The molecular weight markers on both sides of the gels indicate the size of the MMPs exhibiting gelatinase activities. Image collected and cropped by CiteAb from the following publication (https://biosignaling.biomedcentral.com/articles/10.1186/1478-811X-10-13) licensed under a CC-BY license.	
Western Blot: p97/VCP Antibody [NB100-1558] - Whole cell lysate (15 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit antiVCP antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.	
Western Blot: p97/VCP Antibody [NB100-1558] - Detection of human VCP by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-VCP antibody NB100-1558 used for IP at 3 ug per reaction. VCP was also immunoprecipitated by rabbit anti-VCP antibody NB100-1557. For blotting immunoprecipitated VCP, NB100-1558 was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.	
Western Blot: p97/VCP Antibody [NB100-1558] - Zymographic assay of gelatinase activity. Medium supernatants of 20 ml culture medium (medium control) as well as 20 ml conditioned medium from 107 U937 cells, pMTH1-U937 cells & asCD11b-U937 cells in the absence or presence of 5nM TPA for 72 h, respectively, were 18-fold concentrated & subjected to SDS-PAGE containing 2 mg/ml of gelatine. Following incubation with MMP enzyme buffer, the gels were stained with 0.4% Coomassie blue & afterwards destained again to visualize the appearance of gelatinase activity by light bands against the dark background. The molecular weight markers on both sides of the gels indicate the size of the MMPs exhibiting gelatinase activities. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/22607136), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Garg J, Sporkova A, Hecker M, Korff T Tracing G-Protein-Mediated Contraction and Relaxation in Vascular Smooth Muscle Cell Spheroids Cells 2022-12-28 [PMID: 36611924]

Saha I, Yuste-Checa P, Da Silva Padilha M et al. The AAA+ chaperone VCP disaggregates Tau fibrils and generates aggregate seeds in a cellular system Nature communications 2023-02-02 [PMID: 36732333]

Berschneider K Connecting the functions of the proteasome and mitochondria in the lung Thesis 2016-01-01 (WB, Mouse)

Leto D, Morgens D, Zhang L et al. Parallel genome-wide CRISPR analysis identifies a role for heterotypic ubiquitin chains in ER-associated degradation bioRxiv 2018-06-17 (WB, Human)

Leto DE, Morgens DW, Zhang L et al. Genome-wide CRISPR Analysis Identifies Substrate-Specific Conjugation Modules in ER-Associated Degradation Mol. Cell 2018-12-06 [PMID: 30581143] (Human)

Kustermann M, Manta L, Paone C et al. Loss of the novel Vcp (valosin containing protein) interactor Washc4 interferes with autophagy-mediated proteostasis in striated muscle and leads to myopathy in vivo. Autophagy 2018-08-16 [PMID: 30010465] (WB, Zebrafish)

Bersuker K, Peterson CWH, To M et al. A Proximity Labeling Strategy Provides Insights into the Composition and Dynamics of Lipid Droplet Proteomes. Dev. Cell 2017-12-19 [PMID: 29275994] (Human)

Regensburger M, Turk M, Pagenstecher A et al. VCP-related multisystem proteinopathy presenting as early-onset Parkinson disease Neurology 2017-07-19 [PMID: 28724584] (Human)

Clemen CS, Tangavelou K, Strucksberg KH et al. Strumpellin is a novel valosin-containing protein binding partner linking hereditary spastic paraplegia to protein aggregation diseases. Brain 2010-10-01 [PMID: 20833645] (IHC-Fr, Rat, Mouse)

Olzmann JA, Richter CM, Kopito RR et al. Spatial regulation of UBXD8 and p97/VCP controls ATGL-mediated lipid droplet turnover Proc Natl Acad Sci U S A 2013-01-07 [PMID: 23297223] (ICC/IF, Human)

Mandel K, Otte A, Hass R. Involvement of CD11b integrin in the alteration of metabolic factors after phorbol ester stimulation of human myeloid leukemia cells Cell Commun Signal 2012-07-11 [PMID: 22607136] (WB, Human)

Christianson JC, Olzmann JA, Shaler TA et al. Defining human ERAD networks through an integrative mapping strategy. Nature Cell Biology. 2011-11-27 [PMID: 22119785]

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

Products Related to NB100-1558

NBL1-17707	p97/VCP Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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