Product Datasheet

PINK1 Antibody - BSA Free BC100-494SS

Unit Size: 0.025 ml

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



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BC100-494SS

PINK1 Antibody - BSA Free

Product Information	
Unit Size	0.025 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	62.7 kDa
Product Description	
Host	Rabbit
Gene ID	65018
Gene Symbol	PINK1
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:33775690). All species in which poly(GP) peptides are synthesized. Human reactivity reported in multiple pieces of scientific literature.
Specificity/Sensitivity	Human PINK1 Antibody will be reactive to isoform 2.
Immunogen	PINK1 antibody was developed using a synthetic peptide made to the human PINK1 protein sequence (between residues 175-250). [Swiss-Prot Q9BXM7]
Product Application Details	
Applications	Western Blot, Electron Microscopy, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, SDS-Page, Peptide ELISA, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1:500 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation reported in scientific literature (PMID 22078885), Immunohistochemistry-Paraffin reported in scientific literature (PMID 25083992), Immunohistochemistry-Frozen reported in scientific literature (PMID 31908016), Immunoblotting reported in multiple pieces of scientific literature, Peptide ELISA 1:100 - 1:2000, Electron Microscopy, SDS- Page reported in scientific literature (PMID 27846363), Knockout Validated reported in scientific literature (PMID 31066324), Knockdown Validated
Application Notes	NOTE: It's recomended to use 1-5% w/v BSA in TBS with 0.1% Tween-20 for all incubations in WB. Specific bands are seen at 48, 55 and 63 kDa in Western Blot. In WB, this antibody has been used in valinomycin and CCCP treated HeLa whole cell lysate.



Images

Cyto. Fraction Mito. Fraction PINK1/Parkin-mediated mitophagy. Western Blot of mitochondrial and D C 5min 1R 2R 4R 6R C 5min 1R 2R 4R 6R kD 250 cytosolic fractions for PINK1, Parkin, and ubiquitin. E Quantitation of protein levels, normalized to VDAC and GAPDH, Ubiguitin: n = 6, PINK1: Ub n = 5, Parkin: n = 8. R, post-reoxygenation. Image collected and cropped by CiteAb from the following publication PINK (//pubmed.ncbi.nlm.nih.gov/33980811/) licensed under a CC-BY license. Parkir VDAC Immunocytochemistry of PINK1 antibody (BC100-494 Lot G). HeLa cells were treated with valinomycin (1 uM for 24h) prior to being fixed in 10% buffered formalin for 10 min and permeabilized in 0.1% Triton X-100 in PBS for 10 min. Cells were incubated with BC100-494 at 20 ug/mL for 1h at room temperature, washed 3x in PBS and incubated with Alexa Fluor488 anti-rabbit secondary antibody. PINK1 (Green) was detected at the mitochondria. Tubulin (Red) was detected using an anti-tubulin antibody with an anti-mouse DyLight 550 secondary antibody. DNA (Blue) was counterstained with DAPI. Note: mitochondria staining might not be easily observed without treatment with valinomycin or CCCP. NOVUS Confocal microscopy analysis of the mitophagy initiation in the RPE cells by staining PINK1 and PARKIN. One-year-old WT and dKO mice focusing on the RPE cells in the vicinity of the optic nerve (a,e). PINK1 (b, red) and PARKIN (c, green) were double-stained and the merged image (d) was used to count the colocalized puncta from WT. Similarly, in dKO PINK1 (f, red) and PARKIN (g, green) were double-stained, and the merged image (h) was used to count the colocalized puncta. dKO = NFE2L2/PGC1a double knockout. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/32183173/) licensed under a CC-BY license. Western blot image of PINK1 antibody (BC100-494) in multiple cells 3 1 2 4 lines. Human HeLa (lane 1), Mouse NIH-3T3 (lane 2), L929 (lane 3) and Rat PC12 (lane 4) whole cell protein were separated by SDS-PAGE on a 250-7.5% polyacrylamide gel. Protein was transferred to PVDF membrane 150and probed with 2 ug/mL BC100-494 in 1% BSA and detected with an 100-HRP-conjugated anti-rabbit secondary antibody using 75chemiluminescence. Observed molecular weight ~55 kDa (arrowhead). 50-37-25







Rabbit heart tissue. IHC-P image submitted by a verified customer review.



















Mitophagy execution via PINK1 accumulation, MFN2/TOM20 reduction and mitophagy signaling in MDA-MB-231 cells in vitro and SST2 tumors in vivo. (D) Representative cropped PINK1 immunoblot from the mitochondrial fractions of cells treated with different MTAs for 12 hours. Bar represents the mean +/- SEM. (n=4). Image collected and cropped by CiteAb from the following publication

(https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.23171), licensed under a CC-BY licence.

PINK1 and Parkin are phosphorylated after a decrease in deltapsim in mouse primary neurons. Neurons were infected with lentivirus encoding PINK1-Flag (A), wild-type HA-Parkin (B) or HA-Parkin with either the S65A or S65E mutation (C). Cells were treated with the mitochondrial uncoupler CCCP (30 um) for 1-3 h and subjected to SDS-PAGE in the absence or presence of 50 um phos-tag. Note that mobility does not reflect the molecular weight of proteins in phos-tag PAGE (Kinoshita et al. 15), and thus, molecular weight markers are not shown in the bottom gels. The red and black asterisks in (C) indicate phosphorylation of Parkin at Ser65 and an additional minor phosphorylation site, respectively. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23751051), licensed under a CC-BY licence.

PPM1H does not dephosphorylate Ser111 of Rab8A or key phosphorylation sites of AMPK and Akt signaling pathways.(A) HEK293 cells were transiently transfected with constructs expressing the indicated components. 24 hr post-transfection, cells were treated +/-10 uM CCCP (Carbonyl cyanide m-chlorophenyl hydrazine) for 3 hr to induce activation of the PINK1 kinase and trigger Rab8A phosphorylation at Ser111 (Lai et al., 2015). (B) As in (A) except cells were immunoblotted with the indicated antibodies that recognize key phosphorylation sites of AMPK and Akt signaling pathways. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31663853), licensed under a CC-BY licence.

Representative immunohistochemical expression for HIF-1α, c-Met, CA9 and GLUT1. HIF-1α is stained in cytoplasm shown with no staining in normal cervix (A), weak staining intensity in high grade CIN (B), and strong staining intensity in squamous cell carcinoma (C). c-Met (D-F), CA9 (G, H) and GLUT1 (I) shows cell membranous staining. Representative c-Met expression in cervical samples shown with no staining in normal cervix (D), weak membranous staining intensity in squamous cell carcinoma (E) and strong intensity in squamous cell carcinoma (F). CA9 expression showing moderate intensity staining in carcinoma in situ (CIS) (G) and strong staining in adenocarcinoma (H). GLUT1 expression showing strong intensity in squamous cell carcinoma (I). Scale bar: 50 μm. Image collected and cropped by CiteAb from the following open publication (https://translationalmedicine.biomedcentral.com/articles/10.1186/1479-5876-11-185),

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Spontaneously metastasizing tumor cells survive significantly longer at the secondary site compared to intravenously injected tumor cells.a Representative intravital microscopy images showing the possible fates of extravascular disseminated tumor cells in the lung parenchyma. Top: 63 Images of disseminated tumor cells just after extravasation. Bottom left: Example of an extravascular tumor cell, which has died, as evidenced by 52 small extravascular apoptotic bodies (yellow arrow). Bottom middle: Example of an extravascular tumor cell that survived as a single and 16 solitary tumor cell over time. Bottom right: Example of an extravascular tumor cell that began to divide and grow into a micro-metastasis. Red = tdTomato labeled endothelial cells and 155 kDa Tetramethylrhodamine 52 dextran labeled blood serum, Green = GFP labeled tumor cells. Yellow dashed lines delineate blood vessel boundaries. Scale bar = 15 µm. b Percentage of extravascular E0771-GFP disseminated tumor cells that died, survived, or grew after extravasation in EM and SM models 64 hrs after arrival to the lung vasculature. EM: n = 27 tumor cells in 4 mice. SM: n = 31 tumor cells in 4 mice. Bar = mean. Error bars = ±SEM. For Died and Survived columns, a two-tailed unpaired t-test was used (p = 0.0003) and 0.0005, respectively). For Grew columns, a two-tailed Mann-Whitney test was used (p = 0.14). ***p < 0.001. ns = not significant. Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35110548), licensed under a CC-BY license. Not internally tested by Novus Biologicals. Functional assessment of Fanconi anemia pathway. (a) The b experimental scheme for MMC treatment. Twenty four hours after plating, cells were cultured with or without MMC 1 µM for an additional 24 hr, after which the cells were harvested for western blot or immunostaining. (b) Western blot with FANCD2 antibody of BJ, proband fibroblasts, FANCB mutant (null) fibroblasts and FANCD2 mutant (null) fibroblasts. (c) Western blot with FANCD2 antibody of non FA control lymphoblasts (LCL), proband LCL A 2017, proband LCL B 2017, FANCB mutant (null) LCL, and FANCD2 mutant (null) LCL. (d) Representative figures of FANCD2 foci formation in the indicated cells. (e) Quantification of FANCD2 foci formation following treatment with or without 1 µM MMC. Experiments were performed in triplicate. One hundred cells were counted for each experiment Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29193904), licensed under a CC-BY license. Not internally tested by Novus Biologicals. e Rotenone Detailed schematic and validation of the FKBP5 TRE transgene. A, To allow for site-directed, single copy insertion into the mouse genome in chromosome 11, the transgenic construct contained flanking attB sites WB: PINK1 via a PhiC31 integrase. The downstream Mp1 poly A tail will help maintain stable expression. To drive high expression, the transgenic construct included a tetracycline-response element (TRE) promoter IP: LETM1 made of seven repeats of the tetracycline operators used to drive high expression of the singly inserted FKBP5 gene in the presence of the tTA, WB: pT192 and a weak minimal CMV promoter which produces low basal expression. B, Western blotting from HEK293T cells transfected with increasing amounts of FKBP5 TRE plasmid, as indicated, for 48 h. C, HEK293T cells were transfected with the indicated amounts of FKBP5 WB: LETM1 TRE and tTA plasmid, to ensure the tTA would drive high FKBP51 expression. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/30963102), licensed under a CC-BY license. Not internally tested by Novus Biologicals.











Immunoblot analyses of protein expression for Nrf2 and antioxidant enzymes.A. Analysis of nuclear Nrf2 in young and old mice subjected to EES. In sedentary mice, Nrf2 protein levels were decreased significantly in young versus old mice. EES exacerbated the decrease of nuclear Nrf2 in old mice. Blots/values represent n=4–6 from each group. *p<0.05 between young vs. old and #p<0.05-between basal vs. EES. (B) Representative immunoblots of cytosolic extracts from the hearts of young and old mice under basal conditions and following EES. Protein blots were probed with anti-HO1, NQO1, GCLM, GCLC, Catalase, SOD1, SOD2, GSR, G6PD, GPX1 and GAPDH. Individual lanes indicate a single animal. Densitometry analysis of respective protein signals was performed using Image-J and expressed as relative intensity units calculated as mean values of young and old, *p<0.05. Individual lanes indicate each animal (n=6). #p<0.05-between basal and EES. Image collected and cropped by CiteAb from the following open publication (https://dx.plos.org/10.1371/journal.pone.0045697), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Optn or p62 deficiency affects autophagosome formation.(A) Workflow of the experiments shown in (B-G). Larvae were treated with 100 nM of Baf A1 for 12 h from 3.5 dpf. The GPF-Lc3 negative larvae were selected to assay autophagy activity by Western blot, the GFP-Lc3 positive larvae were collected to monitor autophagic activity using confocal imaging. The red square indicates the region for confocal imaging. (B) Level of basal autophagy in WT and mutant embryos in absence or presence of Baf A1. Protein samples were extracted from 4 dpf WT and mutant larvae (>10 embryos/sample). The blots were probed with antibodies against Lc3 and Actin as a loading control. Western blots were repeated at least three times with independent extracts. (C) Quantification of Lc3-II fold changes in WT and mutant embryos in absence or presence of Baf A1. Western blot band intensities were quantified by Lab Image. Data is combined from three independent experiments. (D) Representative confocal micrographs of GFP-Lc3 puncta present in the tail fin of optn+/ +, optn Δ 5n/ Δ 5n, p62+/+ and p62 Δ 37n/ Δ 37n at 4 dpf. Scale bars, 10 μ m. (E). Quantification of the number of GFP-Lc3 puncta in optn+/+, optn Δ 5n/ Δ 5n, p62+/+ and p62 Δ 37n/ Δ 37n larvae with and without Baf A1 treatment. Each larva was imaged at a pre-defined region of the tail fin (as indicated by the red boxed area in Fig3 A) (\geq 11 larvae/group). Results are accumulated from two independent experiments. ns, nonsignificant, *p<0.05, **p<0.01, ***p<0.001. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/30818338), licensed under a CC-BY

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Increased expression of HIF α and/or Twist in A549 and H441 cells induced by the inhibition of PIMT and Thapsigargin(A) Immunoblotting of Slug, ZEB1, Snail1, Twist, and HIF1α in A549 sh-PIMT and sh-control cells. (B, C) Immunoblotting and relative intensity of HIF1α in A549 cells treated with Tg. (D) Immunoblotting of Slug, ZEB1, Snail1, Twist, and HIF1 α in si-control cells and si-PIMT H441 cells. (E, F) Immunoblotting and relative intensity of HIF1 α in H441 cells treated with Tg. #1 and #2 indicates si-RNA of J-010000-05-0002 and J-010000-07-0002, respectively. Image collected and cropped by CiteAb from the following open publication

(https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.24324), licensed under a CC-BY license. Not internally tested by Novus Biologicals.







G Flow cytometry gating strategy for quantification of platelet-derived microparticles in equine platelet samples. A: Platelet events in citrateanticoagulated platelet-rich plasma were identified and gated as CD41positive cells (R1 region) in a CD41 fluorescence versus forward scatter (FSC) dotplot. The R1 region or gate was established on an isotype control for the CD41 antibody. Representative image from platelets PINK1 exposed to the RacL11 strain of EHV-1 at 1 plaque forming unit (PFU)/cell. B: Platelet-derived microparticles (PDMPs) were defined as small events (<101 log FSC units) positive for Annexin V and CD41. The PDMP percentage was obtained from the lower right quadrant of an Annexin V fluorescence versus FSC dotplot of the R1 gate (CD41positive events), with the quadrants being defined on a negative sample in which 1 mM EDTA was added to the buffer with Annexin V. The PDMP percentage was 0.1% in this representative image of platelets B exposed to rabbit kidney 13 (RK) cell lysate at an equivalent volume to 1 PFU/cell (mock-infected negative control). The events in the upper left and right guadrants are platelets that are negative (94.0%) and positive for Annexin V (0.9%), respectively. C: Representative image of PDMP quantification in platelets exposed to RacL11 at 1 PFU/cell. In this sample, there are 12.1% PDMP (lower right quadrant) and 22.1% of -ysate platelets are weakly positive for Annexin V (upper right quadrant). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/25905776), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





Inhibition of MST improves liver regeneration in aged miceAged mice в (> 12 months) were injected i.v. with siScr or siMST. Twenty □ four hours after siRNA injection, a 70% PH was performed and remnant/regenerating liver tissue was harvested 40 h later. p.i. of the livers was calculated by IHC staining of Ki67 positive hepatocytes and livers were classified as (−) non regenerating or (+) regenerating based on the percentage of positive cells. Non surviving animals were sacrificed before the 40 h end time point. "n" indicates the number of animals per group.Ki67 immunostaining of the regenerating aged mice livers, 40 h post PH. Sections were scanned using 3DHistech Pannoramic MIDI Scanner and guantitated with Quant Center 2.0 software. p.i. values are provided on the image. Representative photomicrograph of an aged liver treated with siMST and stained with H&E and by IHC for CK19 and Ki67. Arrows indicate ductal regions with no signs of reaction or oval cell expansion. Quantitative RT-PCR analysis of RNA isolated from mouse liver for Foxm1B, Birc5 and Ccnb1 at 0 and 40 h post PH. Log2 fold change was calculated using non transfected/non resected mouse liver as a control. Representative results from a single experiment with n = 6 animals per group are shown. Paired, two tailed Student's t test was used to calculate the significant change in signals between liver tissues at the time of resection (0 h) compared to 40 h post PH.Percentage of Ki67 positive hepatocytes in aged and aged + siMST 40 h post resection. Representative results from a single experiment with n = 6 independent aged animals for group are shown. Two tailed Student's t test was used to calculate the significance of percentage of positive hepatocytes of siMST treated animals compared to non treated controls. Endpoint liver weight was taken of the remnant lobe and expressed as a percentage to total body weight. Representative results from a single experiment with n = 6independent animals for group expect for control group where n = 6 are shown. Estimated liver to body weight ratio before PH in mice = 3.85 ± 0.05 (SD). Unpaired, two tailed Student's to test was used to calculate the significance of each aged group in comparison with the control young group. Hepatocyte geometric diameter was determined (see Materials and Methods). Representative results from a single experiment with n = 3 independent animals per group. Unpaired, two tailed Student's t test was used to calculate the significant change in hepatocyte size in liver tissue with and without siMST 40 h post PH.Data information: Bars represent mean ± SD. Scale bars, 50 µm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/27940445), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Page 14 of 17 v.20.1 Updated 12/20/2023





Publications

George F G Allen, Rachel Toth, John James, Ian G Ganley Loss of iron triggers PINK1/Parkin-independent mitophagy EMBO Reports 2013-12-01 [PMID: 24176932]

Seo Jeong Jeon, Kwang Chul Chung The SCF-FBW7β E3 ligase mediates ubiquitination and degradation of the serine/threonine protein kinase PINK1 The Journal of Biological Chemistry 2024-03-18 [PMID: 38508312]

Inge Kinnart, Liselot Manders, Thibaut Heyninck, Dorien Imberechts, Roman Praschberger, Nils Schoovaerts, Catherine Verfaillie, Patrik Verstreken, Wim Vandenberghe Elevated α-synuclein levels inhibit mitophagic flux NPJ Parkinson's Disease 2024-04-09 [PMID: 38594264]

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Laura Jankó, Tünde Kovács, Miklós Laczik, Zsanett Sári, Gyula Ujlaki, Gréta Kis, Ibolya Horváth, Miklós Antal, László Vígh, Bálint L. Bálint, Karen Uray, Péter Bai, Ted M. Dawson, Oleh Khalimonchuk Silencing of Poly(ADP-Ribose) Polymerase-2 Induces Mitochondrial Reactive Species Production and Mitochondrial Fragmentation Cells 2021-06-04 [PMID: 34199944]

Christy B. M. Tulen, Ying Wang, Daan Beentjes, Phyllis J. J. Jessen, Dennis K. Ninaber, Niki L. Reynaert, Frederik-Jan van Schooten, Antoon Opperhuizen, Pieter S. Hiemstra, Alexander H. V. Remels Dysregulated mitochondrial metabolism upon cigarette smoke exposure in various human bronchial epithelial cell models Disease Models & Mechanisms 2022-03-01 [PMID: 35344036]

J. Tabitha Hees, Simone Wanderoy, Jana Lindner, Marlena Helms, Hariharan Murali Mahadevan, Angelika B. Harbauer Insulin signalling regulates Pink1 mRNA localization via modulation of AMPK activity to support PINK1 function in neurons Nature Metabolism 2024-03-19 [PMID: 38504131]

Stephanie B Levy, Richard G Bribiescas Hierarchies in the energy budget: Thyroid hormones and the evolution of human life history patterns. Evolutionary anthropology 2023-10-01 [PMID: 37584402]

More publications at http://www.novusbio.com/BC100-494



Procedures

Western Blot protocol for PINK1 Antibody (BC100-494)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.

2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.

3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.

4. Rinse the blot of the protein stain.

5. Block the membrane using 5% BSA for at least 1 hour.

6. Dilute anti-PINK1 primary antibody in 1-5% w/v BSA in TBS with 0.1% Tween-20 for 1 hour at room temperature. 7. Wash the membrane in wash buffer three times for 10 minutes each.

7. Wash the membrane in wash buller three times for 10 minutes each.

8. Incubate in diluted HRP-conjugated Rabbit secondary antibody in 1% BSA (as per manufacturers instructions) and incubate 1 hour at room temperature.

9. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).

10. Apply the detection reagent of choice in accordance with the manufacturers instructions.







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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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