Product Datasheet

PINK1 Antibody
BC100-494

Unit Size: 0.1 ml

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

Reviews: 11  Publications: 144

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/BC100-494

Updated 2/16/2020 v.20.1
### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 ml</th>
</tr>
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<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
</tr>
<tr>
<td><strong>Target Molecular Weight</strong></td>
<td>62.7 kDa</td>
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### Product Description

<table>
<thead>
<tr>
<th><strong>Host</strong></th>
<th>Rabbit</th>
</tr>
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<tbody>
<tr>
<td><strong>Gene ID</strong></td>
<td>65018</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>PINK1</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse, Rat, Drosophila, Rabbit</td>
</tr>
<tr>
<td><strong>Reactivity Notes</strong></td>
<td>Drosophila reactivity reported in scientific literature (PMID: 30237395).</td>
</tr>
<tr>
<td><strong>Specificity/Sensitivity</strong></td>
<td>Human PINK1 Antibody will be reactive to isoform 2.</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>PINK1 antibody was developed using a synthetic peptide made to the human PINK1 protein sequence (between residues 175-250). [Swiss-Prot Q9BXN7]</td>
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### Product Application Details

<table>
<thead>
<tr>
<th><strong>Applications</strong></th>
<th>Western Blot, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, SDS-Page, Peptide ELISA, Knockdown Validated, Knockout Validated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Notes</strong></td>
<td>NOTE: It’s recommended to use 1-5% w/v BSA in TBS with 0.1% Tween-20 for all incubations in WB. This PINK1 antibody can be used for ICC, Peptide ELISA and Western blot, where specific bands are seen at 48, 55 and 63 kDa. In WB, this antibody has been used in valinomycin and CCCP treated HeLa whole cell lysate. Use in IP reported in scientific literature (PMID: 22078885) Use in paraffin-sections reported in scientific literature (PMID: 25083992). Use in Immunoblotting reported in multiple pieces of scientific literature. Use in SDS-Page reported in scientific literature (PMID: 27846363). Use in Knockout Validated reported in scientific literature (PMID: 31066324).</td>
</tr>
</tbody>
</table>
Western Blot: PINK1 Antibody [BC100-494] - Alteration of mitochondria and PD associated proteins in SH-SY5Y cells with telomere removal by CRISPR-Cas9. Representative Western blot of PGC-1alpha, NRF1, and PINK1 in SH-SY5Y cells transfected with either gTel or gCont (72 h). Beta-actin served as a loading control. Image collected and cropped by CiteAb from the following publication (http://www.mdpi.com/1422-0067/18/10/2093), licensed under a CC-BY licence.

Knockdown Validated: PINK1 Antibody [BC100-494] - HEK293 cells were co-transfected with PINK1 siRNA (#1 or #2) or scrambled siRNA (scrambled) and untagged wild-type (WT) or Ser65Ala (S65A) mutant Parkin as indicated using TransFectin reagent (Bio-Rad). 48 hrs post-transfection, cells were treated with/without 10 uM CCCP for 3 h. 0.25 mg of 1% Triton whole-cell lysate were subjected to immunoprecipitation with GST-Parkin antibody (S966C) covalently coupled to protein G Sepharose and then immunoblotted with anti-phospho-Ser65 antibody in the presence of dephosphorylated peptide. 5% of the IP was immunoblotted with total anti-Parkin antibody. 0.25 mg of whole-cell lysates were immunoprecipitated with anti-PINK1 antibody (S085D) and immunoblotted with anti-PINK1 antibody. Representative of three independent experiments. Image collected and cropped by CiteAb from the following publication (http://rsob.royalsocietypublishing.org/cgi/doi/10.1098/rsob.120080) licensed under a CC-BY licence.

Western Blot: PINK1 Antibody [BC100-494] - Pathogenic mutants of Parkin are subjected to Ser65 phosphorylation. Phos-tag Western blotting for Parkin and Western blotting for PINK1 were performed using Parkin WT and a series of pathogenic mutants. Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/srep01002) licensed under a CC-BY licence.

Immunocytochemistry/Immunofluorescence: PINK1 Antibody [BC100-494] - 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.
Immunohistochemistry-Paraffin: PINK1 Antibody [BC100-494] - Rabbit
heart tissue. Image from verified customer review.

Western Blot: PINK1 Antibody [BC100-494] - Western blot image of
PINK1 antibody (BC100-494) in multiple cells 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 7.5% polyacrylamide gel. Protein was transferred to PVDF membrane and probed with 2 ug/ml BC100-494 in 1% BSA and detected with an HRP-conjugated anti-rabbit secondary antibody using chemiluminescence. Observed molecular weight ~55 kDa (arrowhead).

Western Blot: PINK1 Antibody [BC100-494] - Analysis of PINK1 in
mouse liver and hypatocytes using PINK1 antibody. Image from verified customer review. Observed molecular weight ~55 kDa.
## Publications


Gillmore T. Mitochondrial Dynamics in Mesenchymal Cells in Placental Development and Preeclampsia Thesis


Tomita K, Takashi Y, Ouchi Y et al. Lipid peroxidation increases hydrogen peroxide permeability leading to cell death in cancer cell lines that lack mtDNA. *Cancer Sci.* Sep 1 2019 12:00AM [PMID: 31314163] (ICC/IF, Human)


Berndsen K, Lis P, Yeshaw W et al. PPM1H phosphatase counteracts LRRK2 signaling by selectively dephosphorylating Rab proteins. *bioRxiv* Jul 22 2019 12:00AM


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.
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.
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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