# Product Datasheet

## PINK1 Antibody - BSA Free

## NBP1-49678

Unit Size: 0.1 ml

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

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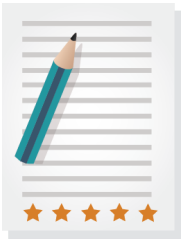
Updated 2/17/2025 v.20.1





# NBP1-49678

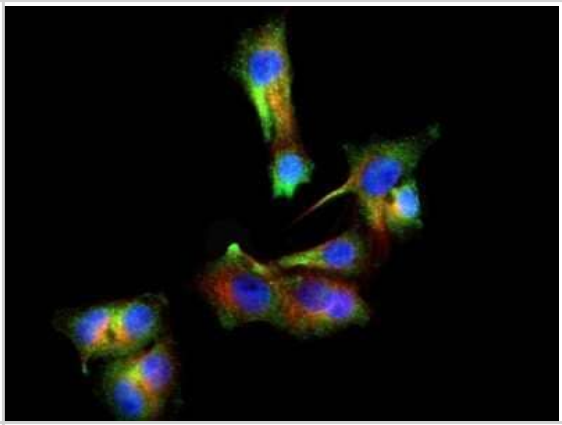
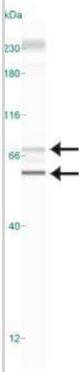
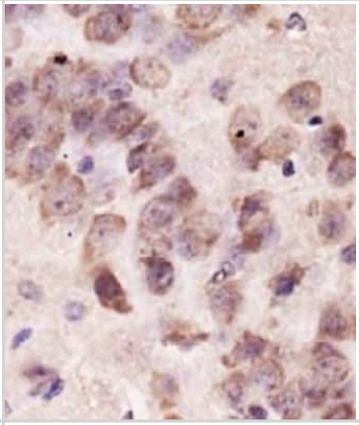
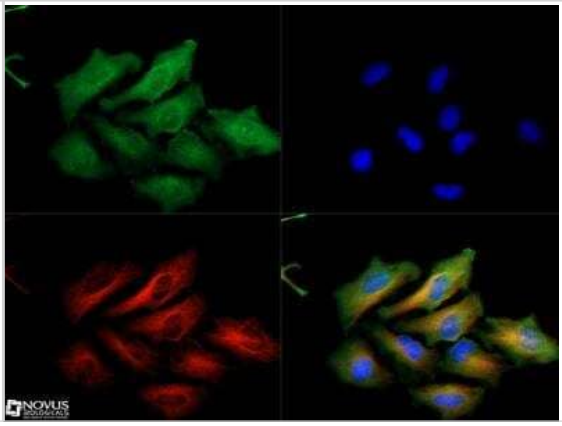
PINK1 Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.1 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 |
| **Specificity/Sensitivity** | Reactivity expected for both isotype 1 and 2. |
| **Immunogen** | PINK1 antibody was developed using a synthetic protein made to an internal region of the human PINK1 protein (within residues 350-500). [Swiss-Prot Q9BXM7] |
| **Notes** | Manufactured by Genomic Antibody Technology™. GAT FAQs |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| **Recommended Dilutions** | Western Blot 1-2 ug/ml, Simple Western 1:50, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50-1:1000, Immunohistochemistry-Paraffin 1:100 |
| **Application Notes** | This PINK1 antibody is useful for IHC and ICC/IF. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.<br><br>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.<br>See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 61 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. Unprocessed PINK1 is 63 kDa which undergoes proteolytic processing to generate 55 kDa and 42 kDa cleaved forms, and bands at the mentioned positions may be expected in Western blot application. |

## Images

| | |
|---|---|
| Immunocytochemistry/Immunofluorescence: PINK1 Antibody [NBP1-49678] - PINK1 antibody was tested in HepG2 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). |  |
| Simple Western: PINK1 Antibody [NBP1-49678] - Lane view shows a specific band for PINK1 at a dilution of 1:50 in 1.0 mg/ml of HeLa lysate. Molecular weight ~61kDa. This experiment was performed under reducing conditions using the 12-230kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody. |  |
| Immunohistochemistry-Paraffin: PINK1 Antibody [NBP1-49678] - Stain in paraffin embedded mouse brain. |  |
| Immunocytochemistry/Immunofluorescence: PINK1 Antibody [NBP1-49678] - PINK1 antibody was tested at 1:50 in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). Image objective 40x. |  |

## Publications

Adrian AE, Liu TT, Pascal LE et al. Aging-Related Mitochondrial Dysfunction is Associated with Fibrosis in Benign Prostatic Hyperplasia The journals of gerontology. Series A, Biological sciences and medical sciences 2023-09-20 [PMID: 37738211]

Luk HY, Jiwan NC, Appell CR et al. Sex-specific mitochondrial dynamics and mitophagy response to muscle damage Physiological Reports 2022-05-25 [PMID: 35611770]

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

## Procedures

**Immunohistochemistry-Paraffin protocol for PINK1 Antibody (NBP1-49678)**

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

**Immunocytochemistry/ Immunofluorescence Protocol for PINK1 Antibody (NBP1-49678)**

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

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## Products Related to NBP1-49678

| | |
|---|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NBP1-49678H | PINK1 Antibody [HRP] |

### 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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