

Product Datasheet

PINK1 Antibody - BSA Free

NB100-644

Unit Size: 0.1 mg

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

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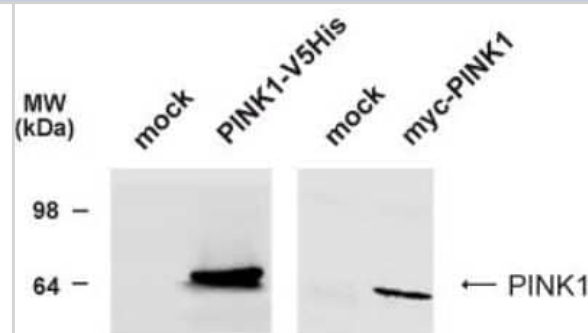
NB100-644

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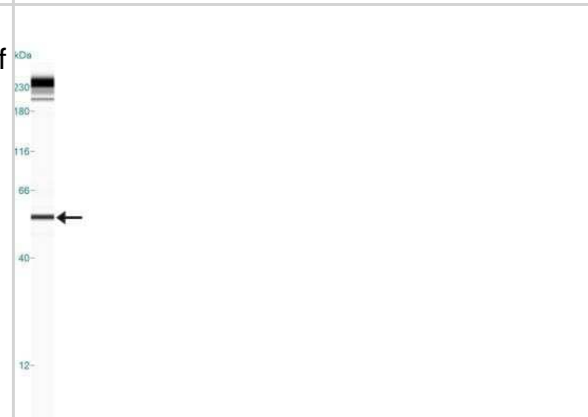
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	62.7 kDa
Product Description	
Host	Rabbit
Gene ID	65018
Gene Symbol	PINK1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: 82.4% with PINK1 protein of Mouse and Rat.
Specificity/Sensitivity	Reacts with residues residues 258-274 (YRKSKRGPQLAPHPNI) of human PINK1 and will only bind to isoform 1.
Immunogen	PINK1 antibody was developed using a synthetic peptide made residues 258-274 (YRKSKRGPQLAPHPNI) of human PINK1.
Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 1:100-1:2000, Simple Western 1:50
Application Notes	<p>Western blot - Use at 1:500 to 1:1,000 dilution. This antibody has only been tested on transfected lysates. Endogenous protein detection is unknown. No other applications have been tested.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>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 56 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. 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.</p>

Images

Western Blot: PINK1 Antibody [NB100-644] - Analysis of C-terminally V5His-tagged human PINK1 or N-terminally myc-tagged human PINK1 expressed in HEK293T cells using NB100-644 at 1:1000 dilution. Observed molecular weight ~64 kDa.



Simple Western: PINK1 Antibody [NB100-644] - Simple Western lane view shows a specific band for PINK1 at a dilution of 1:50 in 1.0 mg/ml of HeLa lysate. Molecular weight ~56 kDa. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Meng J, Lin B, Huang S et al. Melatonin exerts anti-angiogenic and anti-inflammatory effects in alkali-burned corneas. *Annals of Translational Medicine* 2022-04-01 [PMID: 35571431] (Western Blot, Block/Neutralize)

Mankowski R, Wohlgemuth S, Bresciani G et al. Intraoperative Hemi-Diaphragm Electrical Stimulation Demonstrates Attenuated Mitochondrial Function without Change in Oxidative Stress in Cardiothoracic Surgery Patients. *Antioxidants* 2023-04-27 [PMID: 37237876] (Simple Western, Human)

Zhou C, Huang Y, Shao Y et al. The kinase domain of mitochondrial PINK1 faces the cytoplasm. *Proc Natl Acad Sci U S A* 2008-08-19 [PMID: 18687899] (WB, Human)

Xiong H, Wang D, Chen L et al. Parkin, PINK1, and DJ-1 form a ubiquitin E3 ligase complex promoting unfolded protein degradation. *J Clin Invest*. 2009-03-01 [PMID: 19229105] (WB, Human)

Details:

WB: Fig 1 (human brain cortex that had been IP'd with a Parkin antibody). The data showed that PINK1 co-IP'd with Parkin; Multiple Figs: SH-SY5Y cells overexpressing PINK1. See publication for details. IF: Fig S4 (human cortical neurons). Note: The specificity

Sim CH, Lio DS, Mok SS et al. C-terminal truncation and Parkinson's disease-associated mutations down-regulate the protein serine/threonine kinase activity of PTEN-induced kinase-1. *Hum Mol Genet*. 2006-11-01 [PMID: 17000703] (WB, Human)

Details:

WB: Fig 2A (purified recombinant human PINK1). Note: The specificity of the antibody was validated with recombinant human PINK by WB (Fig 2A).



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Products Related to NB100-644

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
BC100-494PEP	PINK1 Antibody Blocking Peptide

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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