

# Product Datasheet

## Park7/DJ-1 Antibody NB100-1194

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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Updated 10/23/2024 v.20.1

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**NB100-1194**

Park7/DJ-1 Antibody

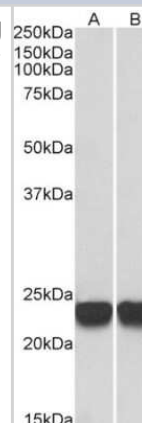
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	20 kDa

Product Description	
Host	Goat
Gene ID	11315
Gene Symbol	PARK7
Species	Human, Mouse, Rat
Specificity/Sensitivity	Variants (NP_001116849.1; NP_009193.2) encode the same protein.
Immunogen	Peptide with sequence C-AAQVKAPLVLKD corresponding to C-Terminus according to NP_009193.2.

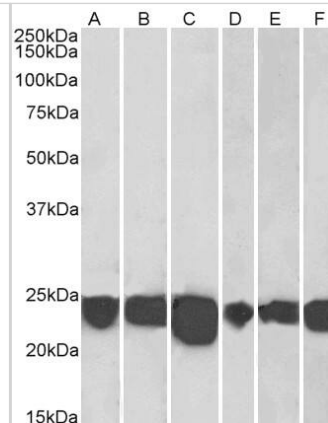
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.5-1 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 5 ug/ml, Immunohistochemistry-Paraffin 7 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	WB: Approx. 24 kDa band observed in HeLa and Jurkat lysates and of human brain (cerebellum, hippocampus, frontal cortex) and rodent brain lysates (calculated MW of 19.9 kDa band according to NP_001116849.1 and of NP_009193.2).

**Images**

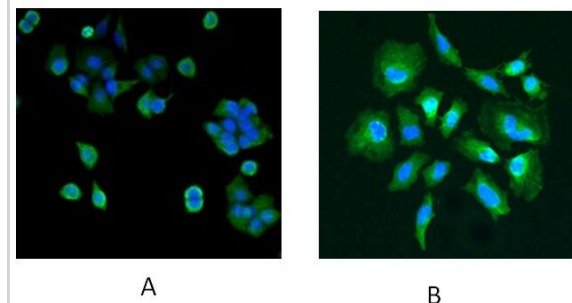
Western Blot: Park7/DJ-1 Antibody [NB100-1194] - (0.001ug/ml) staining of HeLa (A) and Jurkat (B) lysates (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



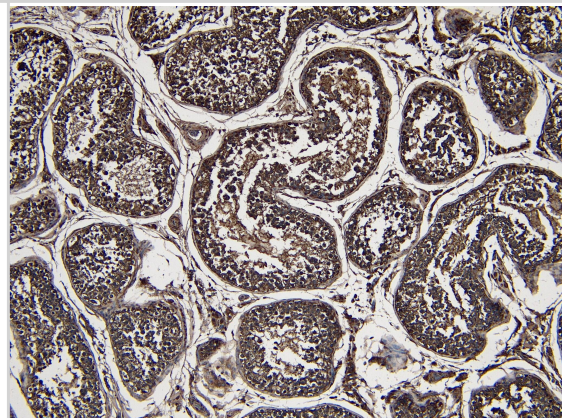
Western Blot: Park7/DJ-1 Antibody [NB100-1194] - (0.001ug/ml) staining of Human Cerebellum (A), Human Frontal Cortex (B), Human Hippocampus (C) Mouse Fetal Brain (D), Mouse Brain (E) and Rat Brain (F) lysates (35ug protein in RIPA buffer). Detected by chemiluminescence.



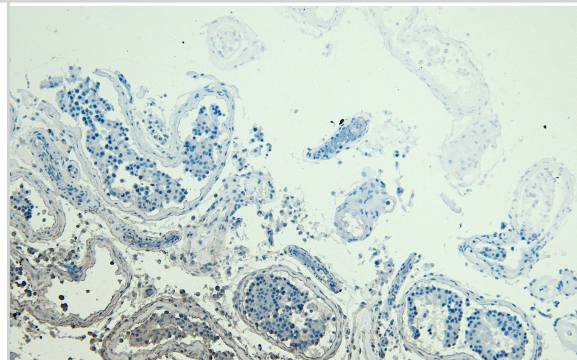
Immunocytochemistry/Immunofluorescence: Park7/DJ-1 Antibody [NB100-1194] - Immunofluorescence staining of MCF7 (A) and HeLa (B) cells with 5ug/ml NB100-1194 antibody. Detected with Rabbit anti-goat IgG-Alexafluor488 antibody at 1:1000. Nuclei Counterstained with DAPI.



Immunohistochemistry-Paraffin: Park7/DJ-1 Antibody [NB100-1194] - (7ug/ml) staining of paraffin embedded Human Testis. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Immunohistochemistry-Paraffin: Park7/DJ-1 Antibody [NB100-1194] - Negative Control showing staining of paraffin embedded Human Testis, with no primary antibody.



## Publications

Sriram K, Lin GX, Jefferson AM et al. Biological effects of inhaled crude oil vapor V. Altered biogenic amine neurotransmitters and neural protein expression Toxicology and applied pharmacology 2022-06-21 [PMID: 35750205] (Rat)

Nagakubo D, Taira T, Kitaura H et al. DJ-1, a novel oncogene which transforms mouse NIH3T3 cells in cooperation with ras. Biochem Biophys Res Commun 1997-02-13 [PMID: 9070310]

Bitar MS, Liu C, Ziaei A et al. Decline in DJ-1 and decreased nuclear translocation of Nrf2 in Fuchs endothelial corneal dystrophy Invest Ophthalmol Vis Sci. 2012-08-24 [PMID: 22836768] (WB, Human)

Deeg S, Gralle M, Sroka K et al. BAG1 restores formation of functional DJ-1 L166P dimers and DJ-1 chaperone activity. J Cell Biol. 2010-02-22 [PMID: 20156966] (WB)

### Details:

DJ-1 antibody western blot in the following figures. 1. Fig 1, transiently transfected wild type and mutant DJ-1 SH-SY5Y neuroblastoma cells, DJ-1 siRNA knockdown of endogenous DJ-1 SH-SY5Y cells, detection of DJ-1 following IP of BAG1 (results showed tha

Saito Y, Nishio K, Ogawa Y, Kimata J, Kinumi T, Yoshida Y, Noguchi N, Niki E. Turning point in apoptosis/necrosis induced by hydrogen peroxide. Free Radic Res;40(6):619-30. 2006-06-01 [PMID: 16753840]

Ooe H, Taira T, Iguchi-Aruga SM, Ariga H. Induction of reactive oxygen species by bisphenol A and abrogation of bisphenol A-induced cell injury by DJ-1. Toxicol Sci;88(1):114-26. 2005-11-01 [PMID: 16093527]

Baulac S, Lu H, Strahle J, Yang T, Goldberg MS, Shen J, Schlossmacher MG, Lemere CA, Lu Q, Xia W. Increased DJ-1 expression under oxidative stress and in Alzheimer's disease brains. Mol Neurodegener;4:12. 2009-02-25 [PMID: 19243613]

Willis D, Li KW, Zheng JQ, Chang JH, Smit A, Kelly T, Merianda TT, Sylvester J, van Minnen J, Twiss JL. Differential transport and local translation of cytoskeletal, injury-response, and neurodegeneration protein mRNAs in axons. J Neurosci;25(4):778-91. 2005-01-26 [PMID: 15673657]



## Procedures

### Western Blot Protocol for Park7(DJ-1) Antibody (NB100-1194)

Western Blot Protocol for Park7(DJ-1) Antibody (NB100-1194):

Western blot Protocol:

- 1) Transfer onto PVDF membrane
- 2) Block in 3% (w/v) skimmed milk in TBS-T (0.05% Tween 20) for 1 hr at room temperature with agitation (can be blocked overnight at 4C without agitation).
- 3) Incubate NB100-1194 (2ug/ml) for 1 hr at room temperature with agitation.
- 4) Wash with TBS-T three times
- 5) Incubate with secondary antibody (1:20,000 or higher). We use Jackson or Rockland anti-goat secondary (affinity purified and with minimal cross-reactivity with Human and rodent serum proteins) for 1 hr at room temperature with agitation.
- 6) Wash with TBST three times.
- 7) Apply the detection reagent of choice in accordance with the manufacturers instructions (We use ECL-plus (Amersham) rather than ECL, which is more sensitive for detection.)

Notes:

\*All antibodies are incubated in blocking buffer.

\*QC testing was done under reducing conditions (with beta mercaptoethanol at 100C).





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### **Products Related to NB100-1194**

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NB800-PC2	Jurkat Whole Cell Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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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