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Datasheet for 600-401-DJ9

PARK2 Antibody

Overview

Description:	Anti-PARK2 (RABBIT) Antibody - 600-401-DJ9
Item No.:	600-401-DJ9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Parkinson's disease (PD) is a neurodegenerative disease whose symptoms include tremors, rigidity, bradykinesia, and postural instability (1). Mutations in the PARK2 gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease (2). The PARK2 protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation (3). Recent studies have suggested that PARK2 expression reduces the mitochondrial accumulation of the apoptosis protein Bax under basal conditions and directly ubiquitinates Bax, thereby promoting cell survival (4).
Synonyms:	rabbit anti-Parkin pS101 Antibody, E3 ubiquitin-protein ligase parkin, Parkin, Parkin RBR E3 ubiquitin-protein ligase, Parkinson juvenile disease protein 2, Parkinson disease protein 2, PRKN, PARK2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRKN
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PARK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the N-terminus of human PARK2

Purity/Specificity:	Anti-PARK2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. PARK2 antibody is human specific.
Relevant Links:	• UniProtKB - O60260 • GeneID - 5071 • NCBI - NP_004553

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PARK2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 52 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

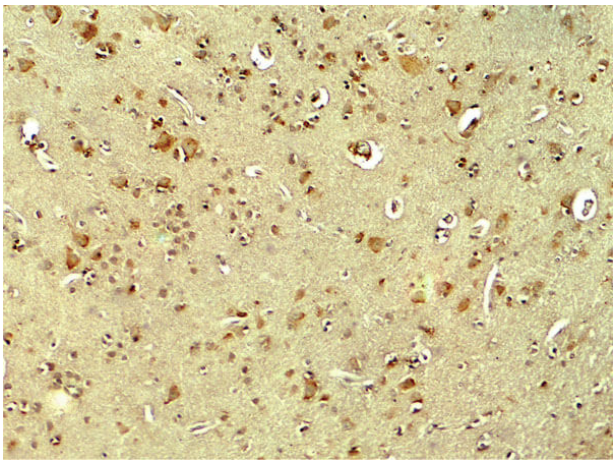
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

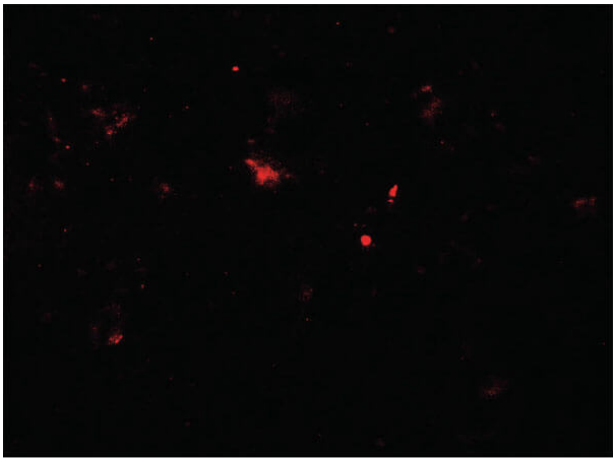
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

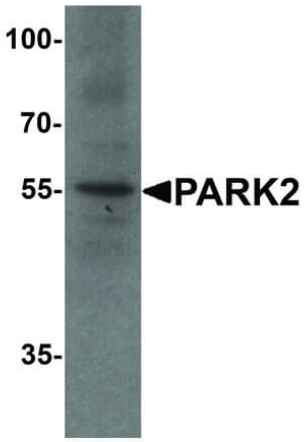
Images



Immunohistochemistry
Immunohistochemistry of Rabbit anti-PARK2 antibody. Tissue: human brain. Primary antibody: PARK2 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: PARK2 is cytoplasmic and nuclear. Staining: PARK2 as precipitated brown signal.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Rabbit anti-PARK2 antibody. Tissue: human brain. Primary antibody: PARK2 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: PARK2 is cytoplasmic and nuclear. Staining: PARK2 as red fluorescent signal.



Western Blot
Western Blot of Rabbit anti-PARK2 antibody. Lane A: human cerebellum tissue lysate. Primary antibody: PARK2 antibody at 1 µg/mL overnight at 4℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 51 kDa, 55 kDa for PARK2.

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