

Datasheet for 600-401-691**PARK-7 Antibody****Overview**

Description:	Anti-Human PARK-7 (RABBIT) Antibody - 600-401-691
Item No.:	600-401-691
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The product of the PARK7 gene, known as PARK7, Parkinson disease (autosomal recessive, early onset) 7, DJ-1 mutant, and DJ-1 oncogene product, functions as a positive regulator of androgen receptor-dependent transcription. PARK7 may also function as a redox-sensitive chaperone and as a sensor for oxidative stress and also has been reported to prevent aggregation of SNCA. PARK7 protects neurons against oxidative stress and cell death and plays a role in fertilization. While PARK7 has no proteolytic activity, it does have a weak transforming activity. PARK7 forms a homodimer and binds to DJBP and PIAS2. PARK7 is part of a ternary complex containing PARK7, DJBP and AR and shows both a nuclear and cytoplasmic localization. Diseases include Early onset autosomal recessive Parkinson Disease 7 and Parkinson Disease Juvenile Type 2.
Synonyms:	rabbit anti-PARK7 antibody, PARK-7, PARK 7, Protein DJ-1, Parkinson disease protein 7, Parkinsonism-associated deglycase, DJ-1 mutant, oncogene DJ1, DJ-1 oncogene product
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PARK7
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminus of Human PARK7 protein.
Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. Reactivity occurs against human PARK7 protein. BLAST analysis was used to determine that 100% homology with the immunizing peptide sequence is on record for this protein from human, chimpanzee, African green monkey, zebrafish and also for mutant/variant forms of human DJ-1 protein. Cross reactivity with PARK7 from frog, mouse, rat, dog, chicken, Japanese rice fish and Atlantic salmon may also occur as the sequence varies by only one amino acid residue as indicated by BLAST analysis. Reactivity with PARK7 protein from other sources is not known.
Relevant Links:	• UniProtKB - Q99497 • NCBI - 31543380 • GenelD - 11315

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 28 kDa in size corresponding to PARK7 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	2 mg/ml - 5 µg/ml
WB:	1:500 - 1:2,000

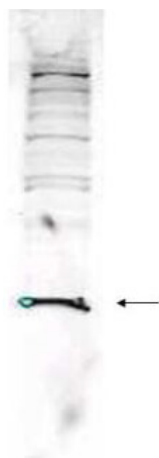
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.3 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (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

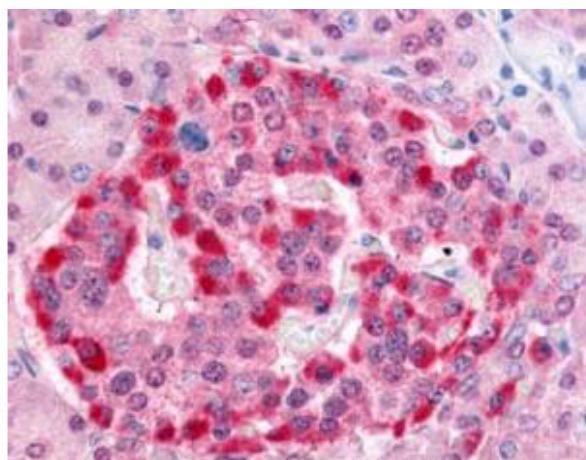


Western Blot

Western blot analysis is shown using Rockland's Affinity Purified anti-Human PARK7 antibody to detect PARK7 present in Jurkat whole cell lysate (p/n W09-001-370). This western blot shows reactivity with human PARK7 protein. Comparison to a molecular weight marker indicates a predominant band of ~28.0 kDa. Peptide competition blocks specific reactivity of the antibody with PARK7 (not shown). A 16% Tris-Tricine gel was used to separate proteins prior to transfer to 0.2 µm nitrocellulose. The blot was incubated with a 1:1,300 dilution of the antibody overnight at 4° C followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] (p/n 611-132-122) diluted 1:5,000 for 45 min at RT. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Immunohistochemistry

Rockland's Affinity Purified anti-PARK7 antibody was used at a 5 µg/ml to detect PARK7 in a variety of tissues. In some tissues elevated background staining was noted. In these instances further optimization of dilution is suggested. This image shows PARK7 staining of human pancreas. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpan Biosciences, Seattle, WA.



Disclaimer

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