Human PARK7 Knockdown Cell Line (WB-Validated)

Catalog #: C61124

Aliases

PARK7; Parkinsonism Associated Deglycase; DJ-1; GATD2; DJ1; Parkinson Disease (Autosomal Recessive, Early Onset) 7; Protein/Nucleic Acid Deglycase DJ-1; Parkinson Disease Protein 7; Parkinson Protein 7; Maillard Deglycase; Oncogene DJ1; Protein DJ-1; Epididymis Secretory Sperm Binding Protein Li 67p; Parkinsonism-Associated Deglycase; Protein Deglycase DJ-1; EC 3.5.1.124; EC 3.1.2.-; EC 3.5.1.-; HEL-S-67p

Background

Gene Name: PARK7
NCBI Gene Entry: 11315

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PARK7 Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

Parental Cell Line

Human cell line supplied by the client

Validation Methods

RT-qPCR, Western blotting (WB)

Shipping

Shipped on Dry Ice.

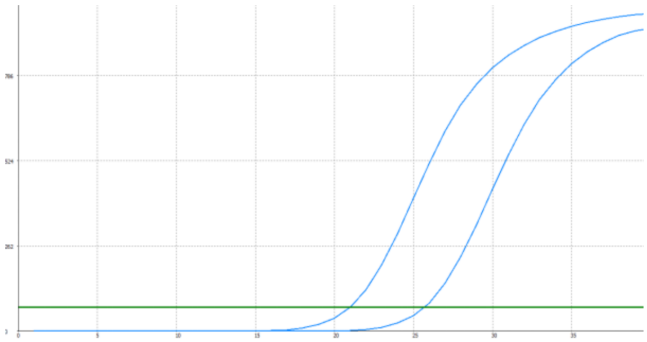
Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

Note: This product is for research use only.

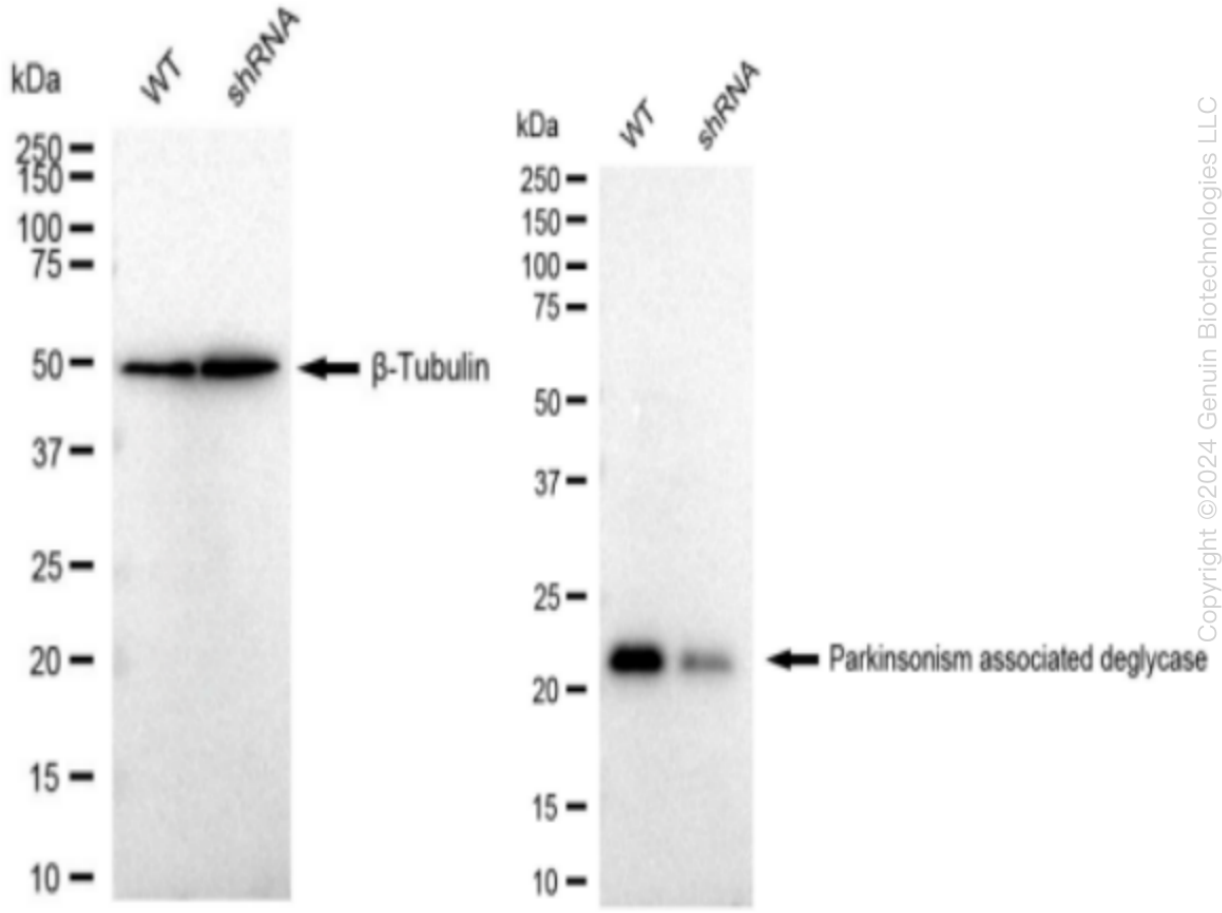
Validation Data

Human PARK7 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.88
Knock-Down	25.47
ΔCt (Ct_{KD}-Ct_{WT})	4.59
% mRNA Reduction	⬇ 96%

RT-qPCR analysis. HeLa cells were infected with PARK7-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. PARK7 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61124, 1:5,000) against PARK7 and β-Tubulin,

respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).