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PARK7

Reactivity: Human Mouse Rat

Tested applications:WB IHC ICC IF IP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:20 - 1:100 IF 1:50 - 1:200 IP 1:20 - 1:100

Calculated MW:20kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PARK7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

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Synonym:

PARK7;DJ-1;DJ1;FLJ27376;FLJ34360;FLJ92274 ;

Catalog #:A0987

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:11315

Isotype: IgG

Swiss Prot:Q99497

Purity: Affinity purification

For research use only.

Background:

Parkinson's disease (PD) is characterized by the presence of Lewy bodies (intracellular inclusions) and by the loss of dopaminergic neurons. Research studies have shown that mutations in -synuclein, Parkin, and DJ-1 are linked to PD (1). -synuclein is a major component of the aggregates found in Lewy bodies. Parkin is involved in protein degradation through the ubiquitin-proteasome pathway, and investigators have shown that mutations in Parkin cause early onset of PD (1). Loss-of-function mutations in DJ-1 cause early onset of PD, but DJ-1 is associated with multiple functions: it cooperates with Ras to increase cell transformation, it positively regulates transcription of the androgen receptor, and it may function as an indicator of oxidative stress (2-5). Dopamine D2 receptor-mediated functions are greatly impaired in DJ-1 (-/-) mice, resulting in reduced long-term depression (6).

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