



## PARK7 Polyclonal Antibody

E90987

**Catalog Number:** E90987**Amount:** 100ul

**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  $\alpha$ -synuclein, Parkin, and DJ-1 are linked to PD (1).  $\alpha$ -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).

**Species:** Rabbit**Isotype:** IgG

**Storage/Stability:** Store at -20°C or -80°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonyms:** PARK7;DJ-1;DJ1;FLJ27376;FLJ34360;FLJ92274 ;

**Immunogen:** Recombinant protein of human PARK7

**Purification:** Affinity purification

**Reactivity:** H M R

**Applications:** WB IHC

**Molecular Weight:** 20kDa

**Swiss-Prot No. :** Q99497

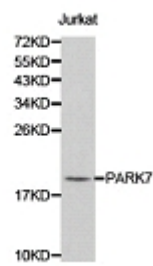
**Gene ID:** 11315

**References:** 1. Borrelli, E. (2005) Neuron 45, 479-81. 2. Bonifati, V. et al. (2003) Science 299, 256-9. 3. Nagakubo, D. et al. (1997) Biochem. Biophys. Res. Commun. 231, 509-13. 4. Takahashi, K. et al. (2001) J. Biol. Chem. 276, 37556-63. 5. Mitumoto, A. and Nakagawa, Y. (2001) Free Radic. Res. 35, 885-93. 6. Goldberg, M.S. et al. (2005) Neuron 45, 489-96.

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WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of Jurkat cell lysate using PAPK7 antibody.