

For Research Use Only

PARK7,DJ-1 Recombinant antibody

Catalog Number: 82913-1-RR



Basic Information

Catalog Number: 82913-1-RR	GenBank Accession Number: BC008188	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 11315	CloneNo.: 230124E12
Source: Rabbit	UNIPROT ID: Q99497	Recommended Dilutions: IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF 1:200-1:800
Isotype: IgG	Full Name: Parkinson disease (autosomal recessive, early onset) 7	
Immunogen Catalog Number: AG2287	Calculated MW: 189 aa, 20 kDa	

Applications

Tested Applications: IP, IF, FC, ELISA	Positive Controls:
Species Specificity: Human	IP : HeLa cells, IF : HepG2 cells,

Background Information

PARK7, also named as DJ1, belongs to the peptidase C56 family. It protects cells against oxidative stress and cell death. PARK7 plays a role in regulating expression or stability of the mitochondrial uncoupling proteins SLC25A14 and SLC25A27 in dopaminergic neurons of the substantia nigra pars compacta and attenuates the oxidative stress induced by calcium entry into the neurons via L-type channels during pacemaking. It eliminates hydrogen peroxide and protects cells against hydrogen peroxide-induced cell death. PARK7 has cell-growth promoting activity and transforming activity. It may function as a redox-sensitive chaperone. It's precursor undergoes a cleavage of a C-terminal peptide and subsequent activation of protease activity in response to oxidative stress. The amino acid replace at 166 (L → P) reduces PARK7 protein stability and leads to increased degradation. The predicted MW of this protein is 20 kDa, An additional 25 kDa band can be observed due to modification (PMID: 31767755).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

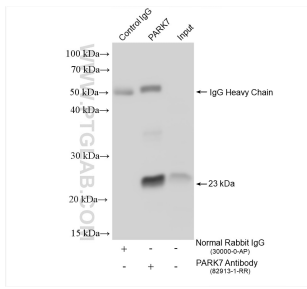
For technical support and original validation data for this product please contact:

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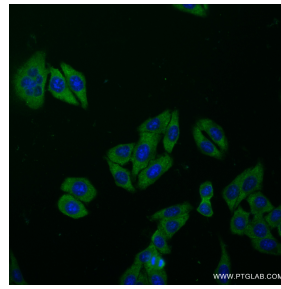
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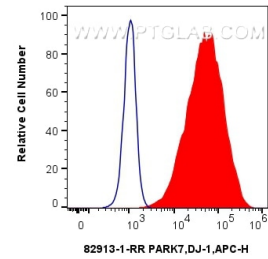
Selected Validation Data



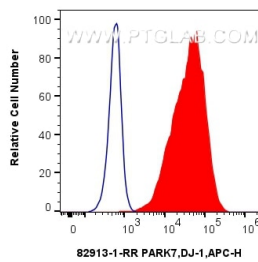
IP result of anti-PARK7,DJ-1 (IP:82913-1-RR, 4ug; Detection:82913-1-RR 1:2000) with HeLa cells lysate 1920 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PARK7,DJ-1 antibody (82913-1-RR, Clone: 230124E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug Anti-Human PARK7,DJ-1 (82913-1-RR, Clone:230124E12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166 (red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10⁶ HepG2 cells were intracellularly stained with 0.2 ug Anti-Human PARK7,DJ-1 (82913-1-RR, Clone:230124E12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166 (red), or 0.2 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).