For Research Use Only

PARK7/DJ-1 Recombinant antibody

Catalog Number:82913-2-RR

Featured Product

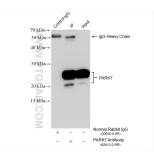


Basic Information	Catalog Number: 82913-2-RR	GenBank Accession Number: BC008188	Purification Method: Protein A purification	
	Size: 1000 ug/ml	GenelD (NCBI): 11315	CloneNo.: 230124B7	
	Source: Rabbit Isotype: IgG	UNIPROT ID: Q99497 Full Name: Parkinson disease (autosomal recessive, early onset) 7 Calculated MW: 189 aa, 20 kDa	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF/ICC 1:125-1:500	
				Immunogen Catalog Number: AG2287
				Observed MW: 25 kDa
	Applications	Tested Applications:	Positive Controls:	
WB, IF/ICC, FC (Intra), IP, ELISA Species Specificity:			HeLa cells, HEK-293 cells, BxPC-3 cells, Jurkat HSC-T6 cells, mouse brain tissue, rat brain tissue	
human, mouse, rat		IP: HeLa cells,		
			I-SY5Y cells,	
Background Informati	and SLC25A27 in dopaminergic n induced by calcium entry into the and protects cells against hydroge transforming activity. It may func terminal peptide and subsequent replace at 166 (L \rightarrow P) reduces PAI	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 \rightarrow 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 Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	I 50% glycerol pH 7.3.		

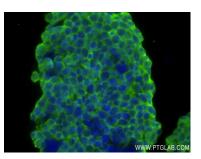
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

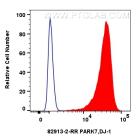
Selected Validation Data



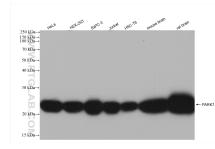
IP result of anti-PARK7/DJ-1 (IP:82913-2-RR, 4ug; Detection:82913-2-RR 1:2000) with HeLa cells lysate 1280 ug.



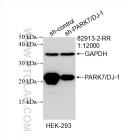
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using PARK7/DJ-1 antibody (82913-2-RR, Clone: 230124B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



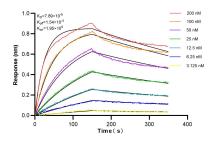
1x10^6 HeLa cells were intracellularly stained with 0.25 ug PARK7/DJ-1 Recombinant antibody (82913-2-RR, Clone:230124B7) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 82913-2-RR (PARK7/DJ-1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of PARK7/DJ-1 antibody (82913-2-RR; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PARK7/DJ-1 transfected HEK-293 cells.



Biolayer interferometry (BLI) kinetic assays of 82913-2-RR against Human PARK7/DJ-1 were performed. The affinity constant is 7.89 nM.