

## Recombinant Human PARK2 protein, His-tagged, Active

Cat. No. PARK2-421H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human PARK2 fused with His tag at N-terminal was expressed in Insect cells. Purified using immobilized metal affinity chromatography.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	Parkin is an E3-ubiquitin ligase belonging to the RBR (RING – In Between RING – RING) family. Mutations in Parkin that result in a loss-of-function are the most frequent cause of familial Parkinson’s disease and are responsible for a large percentage of autosomal recessive juvenile parkinsonism (AR-JP). In addition to its auto-ubiquitination, Parkin can also ubiquitinate various substrates, including the CDK2-interacting protein cyclin E1, the a-synuclein-interacting protein synphilin-1, the synaptic vesicle-associated CDC-rel1 and the p38 subunit of aminoacyl-tRNA synthetase/JTV-1. Ubiquitination of substrates occurs in conjunction with the E2 enzymes Ubch7, Ubch8 or Ubch13/Uev1.
<b>Form</b>	In 50mM Tris/HCl pH7.5, 150mM NaCl, 0.03% Brij-35, 270mM sucrose, 1mM benzamidine, 0.2mM PMSF, 0.1% 2-mercaptoethanol. Frozen solution.
<b>Molecular Mass</b>	55 kDa
<b>Purity</b>	91% by SDS-PAGE and Coomassie blue staining
<b>Applications</b>	For use in Enzyme Assays.

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<b>Notes</b>	Rapidly thaw the vial under cold water and immediately place on ice. Aliquot unused material into pre-chilled microcentrifuge tubes and immediately snap-freeze the vials in liquid nitrogen prior to re-storage at -70 centigrade.
<b>Storage</b>	Estimated to be stable for a minimum of 1 year at -70 centigrade from date of shipment. For maximum recovery of product, centrifuge original vial prior to removing the cap.
<b>Concentration</b>	1.214 mg/ml
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PARK2 parkinson protein 2, E3 ubiquitin protein ligase (parkin) [ Homo sapiens ]
<b>Official Symbol</b>	PARK2
<b>Synonyms</b>	PARK2; parkinson protein 2, E3 ubiquitin protein ligase (parkin); Parkinson disease (autosomal recessive, juvenile) 2, parkin; E3 ubiquitin-protein ligase parkin; AR JP; E3 ubiquitin ligase; parkin; PDJ; parkin 2; parkinson disease protein 2; parkinson juvenile disease protein 2; PRKN; AR-JP; LPRS2;
<b>Gene ID</b>	5071
<b>mRNA Refseq</b>	NM_004562
<b>Protein Refseq</b>	NP_004553
<b>MIM</b>	602544

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<b>UniProt ID</b>	O60260
<b>Chromosome Location</b>	6q25.2-q27
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem;
<b>Function</b>	PDZ domain binding; acid-amino acid ligase activity; chaperone binding; kinase binding; ligase activity; metal ion binding; protein binding; protein kinase binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; zinc ion binding;

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