

Recombinant Human PARK2, GST-tagged

Cat. No. PARK2-231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human Parkin was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	Parkin or parkinson protein 2 is a RING domain-containing E3 ubiquitin protein ligase involved in proteasome-dependent degradation of proteins. Mutations in Parkin can lead to Parkinson's disease. Parkin is important for mitochondrial quality control by lysosome-dependent degradation of damaged mitochondria through autophagy, or mitophagy. Parkin plays an important role in directly supporting mitochondrial function and protecting mitochondrial genomic integrity from oxidative stress. Parkin also has essential role in regulating normal respiratory function in mitochondria and in the protection of cells from oxidative stress.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~68 kDa
Purity	>75% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	PARK2 parkinson protein 2, E3 ubiquitin protein ligase (parkin) [Homo sapiens]
Official Symbol	PARK2
Synonyms	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;
Gene ID	5071
mRNA Refseq	NM_004562
Protein Refseq	NP_004553
MIM	602544
UniProt ID	O60260
Chromosome Location	6q25.2-q27
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling,

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organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem;

Function

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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