

Recombinant Human PARK2

Cat. No. PARK2-30784TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Parkin with N terminal proprietary tag; Predicted MWt 68.64 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	387 amino acids
Description	The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support.
Molecular Weight	68.640kDa inclusive of tags
Tissue specificity	Highly expressed in the brain including the substantia nigra. Expressed in heart, testis and skeletal muscle. Expression is down-regulated or absent in tumor biopsies, and absent in the brain of PARK2 patients. Overexpression protects dopamine neurons from
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGV PADQ LRVIFAGKELRNDWTV QNCDL DQQSIVHIVQRPWRKGQ EMNATGGDDPRNAAGGCEREPQSLTRVDLSSS VLP GDSVG LAVILHTDSRKDSPPAGSPAGRSIYNSFYVYCKGPCQR VQPGKLRVQ CSTCRQATLTLTQGPSCWDDVLIPNRMSGEC QSPHCPGTSAEFFFFKCGAHPTSDK ETSVALH LIATNSR NITCITCTDVRSPVLVFQCNSRHVICLDCFHL YCVTRLND RQFV HDPQLGYSLPCVGTGDTVVLRGALGGFRRGVAGC PNSLIKELHHFRILGEEQYNRY QQYGAEECVLQMGGVLC P RP GCGAGLLPEPDQRKVTCEGGNGLGCGY GQRRTK
Sequence Similarities	Belongs to the RBR family. Parkin subfamily. Contains 1 IBR-type zinc finger. Contains 2 RING-type zinc fingers. Contains 1 ubiquitin-like domain.

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;
Gene ID	5071
mRNA Refseq	NM_004562

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Protein Refseq	NP_004553
MIM	602544
Uniprot ID	O60260
Chromosome Location	6q25.2-q27
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing &
Function	PDZ domain binding; acid-amino acid ligase activity; chaperone binding; kinase binding; ligase activity;

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