

Recombinant human Parkin protein

Catalog Number: ATGP2517

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-465aa

UniProt No.

O60260

NCBI Accession No.

NP_004553.2

Alternative Names

E3 ubiquitin-protein ligase parkin, AR-JP, LPRS2, PDJ, PRKN

PRODUCT SPECIFICATION

Molecular Weight

53.8 kDa (485aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human PARK2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MIVFVRFNSS HGFPVEVDSD TSIFQLKEVV AKRQGV PADQ LRVIFAGKEL RNDWTVQNCD
LDQQSIVHIV QRPWRKGQEM NATGGDDPRN AAGGCERE PQ SLTRVDLSSS VLPGDSVGLA VILHTDSRKD SPPAGSPAGR
SIYNSFYVYC KGPCQRVQPG KLRVQCSTCR QATLTLTQGP SCWDDVLIPN RMSGECQSPH CPGTSAEFFF KCGAHPTSDK
ETSVALHLIA TNSRNITCIT CTDVRSPLV FQCNSRHVIC LDCFHLYCVT RLNDRQFVHD PQLGYSLPCV AGCPNSLIKE
LHHFRILGEE QYNRYQQYGA EECVLQMGGV LCPRPGCGAG LLPEPDQRKV TCEGGNGLGC GFAFCRECKE AYHEGECSAV
FEASGTTTQA YRVDERAAEQ ARWEAASKET IKKTTKPCPR CHVPVEKNGG CMHMKCPQPQ CRLEWCWNCG
CEWNRVCMGD HWFDV

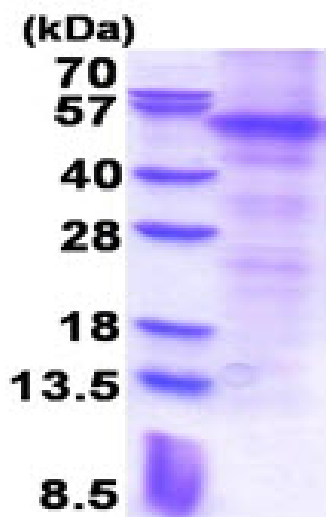
General References

Imai Y., et al. (2000) J. Biol. Chem. 275:35661-35664

Shimura H., et al. (2000) Nat. Genet. 25:302-305

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)