

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of Parkin-BAP

<u>Enzyme description:-</u>	Parkin 1-465 plus biotin acceptor peptide
<u>Clone number:-</u>	DU39835
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	cleaved from N-terminal His-SUMO1 tag
<u>Purification method:-</u>	Ni ⁺⁺ -Sephrose, SENP-treatment, Ni ⁺⁺ -depletion, SEC
<u>Expression level:-</u>	0.2mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	53792 Da
Average Mass	53758 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	6.73
<u>Purity:-</u>	90%
<u>Enzyme storage buffer:-</u>	
50mM HEPES pH 8.2, 150mM NaCl, 20% glycerol, 1mM TCEP	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

Parkin-BAP 1-465 = full length

<u>Protein</u>	Parkin-BAP
<u>Synonyms</u>	PARK2, PRKN2
<u>Clone Number</u>	DU39835
<u>Species</u>	Human
<u>Accession Number</u>	Protein: O60260 Gene: NM_004562.2
<u>Tags</u>	N-terminal His ₆ -SUMO1-tag (cleaved)
Aminoacid sequence of the expressed protein	MGHHHHHSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFVKVMTTHLK KLKESYCYRQGVPMNSLRFLFEGORIANHTPKELGMEEEDVIEVYQEQTGG MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGV PADQLRVI FAGKELRN DWTVQNCDDLQQSIVHIVQRPWRKGOEMNATGGDDPRNAAGGCEREPOSLTR VDLSSSVLPGDSVGLAVILHTDSRKDSPAGSPAGRSIYNSFYVYCKGPCQR VQPGKLRVQCSTCRQATLTLTQGPSCWDDVLI PNRMSGECQSPHCPGTSAEF FFKCGAHPTSDKETSVALHLIATNSRNITCITCTDVRSPVLVFCNSRHVIC LDCFHLYCVTRLNDRQFVHDPQLGYSLPCVAGCPNSLIKELHHFRILGEEQY NRYQOYGAEECVLQMGVLCPRPGCGAGLLPEPDQRKVTCEGGNGLGCGFAF CRECKEAYHEGEC SAVFEASGTTTQAYRVERAAEQARWEAASKETIKKTTK PCPRCHVPVEKNGGCMHMKCPQPQCRLEWCWNCGEWNRVCMGDHWFVGGG GGGGLNDIFEAQKIEWHE
Native sequence	in bold
Protease cleavage	SEN1 treatment after GG of SUMO1
Cloning sites	