

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of Parkin 80-465

<u>Enzyme description:-</u>	Parkin 80-465
<u>Clone number:-</u>	DU39813
<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>	1mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	42491Da
Average Mass	42519Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	7.13
<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 80-465

<u>Protein</u>	Parkin 80-465
<u>Synonyms</u>	PARK2, PRKN2
<u>Clone Number</u>	DU39813
<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 KLKESYCORQGVPMNSLRFLFEGORIAADNHTPKELGMEEDVIEVYQEQTGG MNATGGDDPRNAAGGCEREPOSLTRVDLSSSVLPGDSVGLAVILHTDSRKDS PPAGSPAGRSIYNSFYVYCKGPCQRVQPGKLRVQCSTCRQATLTLTQGPSCW DDVLIIPNRMSGECQSPHCPGTSAEFFFKCGAHPTSDKETSVALHLIATNSRN ITCITCTDVRSPVLVFCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSL PCVAGCPNSLIKELHHFRILGEEQYNRYQQYGAEECVLQMGGVLCPRPGCGA GLLPEPDQRKVTCEGGNGLGCGFAFCRECKEAYHEGECSAVFEASGTTTQAY RVDERRAAEQARWEAASKETIKKTTKPCPRCHVPVEKNGGCMHMKCPQPQCRL EWCWNCGEWNRVCMGDHWFV
Native sequence	in bold
Protease cleavage	SEN1 treatment after GG of SUMO1
Cloning sites	
<u>DNA sequence of cassette</u>	CCATGGGTCATCATCACCATCACCATTCTGACCAGGAGGCAAAACCTTCAAC TGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAAGTCAAAGTCATT GGACAGGATAGCAGTGAGATTCACCTTCAAAGTGAAAAAGCAACACATCTCA AGAACTCAAAGAATCATACTGTCAAAGACAGGGTGTTCCAATGAACTCACT CAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAA CTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAAACGGGGG Gaatgaatgcaactggaggcgacgacccagaaacgcggcgggaggctgtga gctgggagccccagagcttgactcgggtggacctcagcagctcagtcctccca ggagactctgtgggctggctgtcattctgcacactgacagcaggaaggact caccaccagctggaagtccagcaggtagatcaatctacaacagcttttatgt gtattgcaaaggcccctgtcaaagagtgcagccgggaaaactcagggtacag tgcagcacctgcaggcaggcaacgctcaccttgaccagggtccatcttgcct gggatgatgttttaattccaaaccggatgagtggtgaatgccaatccccaca ctgccctgggactagtgcagaatctttctttaaagtgtggagcacaccccacc tctgacaaggaaacatcagtagctttgcacctgatcgcaacaaatagtcgga acatcacttgacattacgtgcacagacgtcaggagccccgtcctgggtttcca gtgcaactcccgccacgtgatttgcttagactgtttccacttatactgtgtg acaagactcaatgatcggcagtttggtcagaccctcaacttggctactccc tgccttgtgtggctggctgtcccaactccttgattaaagagctccatcactt caggattctgggagaagagcagtaaacccggtaccagcagtatgggtgcagag gagtgtgtcctgcagatggggggcgtgttatgccccgcctggctgtggag cggggctgctgccggagcctgaccagaggaaagtcacctgcgaagggggcaa tggcctgggctgtgggtttgccttctgccgggaatgtaagaagcgtaccat gaaggggagtgtagtgcctgatttgaagcctcaggaacaactactcaggcct

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