

## *Division of Signal Transduction Therapy*

### **Standard Operating Procedure**

#### **Preparation of RADIXIN [1 - 583]**

**Protein description:-** Radixin [1 - 583]

**Clone number:-** DU 10790

**Source:-** Recombinant

**Expression system:-** *E.coli*

**Tag:-** N-terminal GST

**Purification method:-** GSH Sepharose

**Calculated molecular mass:-**

Monoisotopic 95,328.97 daltons

Average Mass 95,389.01 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.84

**Purity:-** > 85 %

**Enzyme storage buffer:-**

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,  
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 0.2 mM PMSF, 1 mM Benzamidine.

**Storage temperature:-** -70 °C

**Assay:-** Substrate for LRRK2

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**CLONE DATA SHEET**

**RADIXIN [1 - 583]**

**Protein** Radixin [1 - 583]

**Clone number** DU 10790

**Species** Human

**Accession number** NM\_002906.3

**Tags** N-terminal GST

**Bacterially expressed protein** MSPILGYWKIKGLVQPTRLLEYLEEKYEHLIERDEGDKWRNKKFEL  
GLEFPNLPYYIDGDVKLTSMAIIRYIADKHNMLGGCPKERAIEISMLE  
GAVLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLN  
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKY  
LKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFGPLGSMPPKPINVRV  
**TTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYST**  
**WLKLNKKVTQODVKKENPLQFKFRAKFFPEDVSEELIQEITQRLFFLQ**  
**VKEAILNDEIYCPPETAVLLASYAVQAKYGDYNKEIHKPGYLANDRLL**  
**PQRVLEQHKLTKEQWEERI QNWHEEHRGMLREDSMMEYLKIAQDLEMV**  
**GVNYFEIKNKKGT ELWLGVDALGLNIYEHDDKLT PKIGFPWSEIRNIS**  
**FNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKP**  
**DTIEVQOMKAQAREEKHQQLERAQLENEKEKREIAEKEKERIEREKE**  
**ELMERLKQIEEQTIKAQKELEEQTRKALELDQERKRAKEEAERLEKER**  
**RAAEEAKSAIAKQAADQMKNOQLAAELAEFTAKIALLEEAKKKKEEE**  
**ATEWQHKAFAAQEDLEKTKEELKTVMSAPPPPPPPVIPP TENEHDEH**  
**DENNAEASAELSNEGVMNHRSEEERVTETQKNERNVKKQLQALSSELAQ**  
**ARDETKKTQNDVLHAENVKAGRDKYKTLRQIRQGNTKQRIDEFEAM**

**Native sequence** Amino acids M1 – M583 of human Radixin.  
Residue M232 of the fusion protein is equivalent to M1 of the native protein. The GST tag is located at residues 1 – 220.

**Protease cleavage** PreScission (LEVLFGQP) residues 221 - 228

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### **Cloning sites**

*Bam*HI and *Not*I sites of pGEX-6P-1

### **Nucleotide sequence of insert**

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ggatccATGCCGAAACCAATCAACGTAAGAGTAACTACAATGGATGCT
GAGCTGGAATTTGCCATTCAGCCCAATACAACCTGGCAAACAACCTTTT
GACCAGGTGGTGAAAACAGTTGGTTTTCGCTGAGGTCTGGTTTTTTGGG
CTGCAGTATGTAGACAGCAAAGGTTATTCTACATGGCTTAAACTAAAT
AAAAAGGTAACACAGCAGGATGTTAAAAAAGAGAATCCTTTTACAGTTC
AAGTTTAGAGCTAAATTCTTTTCTGGAAGATGTTTCTGAGGAATTAATT
CAAGAAATAACCCAGAGACTCTTCTTCTTGCAAGTTAAAGAAGCCATC
TTAAATGATGAGATATATTGCCCGCCAGAACTGCAGTCTTTTGGCT
TCCTATGCTGTCCAAGCCAAGTATGGAGATTACAATAAAGAGATTTCAT
AAGCCAGGCTACCTGGCTAATGATAGACTCCTACCCAGCGTGTATTG
GAACAACACAACTAACAAAAGAAGAGTGGGAAGAAAGAATACAGAAC
TGGCATGAAGAACATAGAGGAATGTTAAGGGAGGATTCTATGATGGAA
TACCTGAAGATTGCACAAGATCTAGAAATGTATGGAGTCAACTATTTT
GAAATAAAAAATAAAAAAGGAACTGAATTGTGGCTAGGTGTTGATGCT
TTGGGTCTGAATATTTATGAGCATGACGACAAGTTAACACCTAAAATT
GGTTTTCCCTGGAGTGAAATCAGAAATATTTTCAATTAATGACAAAAAA
TTTGTTATAAAGCCAATCGACAAAAAGGCACCTGATTTTGTGTTTTAT
GCACCTCGTCTGAGAATCAATAAGAGGATTTTGGCCTTATGTATGGGA
AACCATGAACTATACATGCGAAGAAGGAAGCCTGATACTATTGAAGTA
CAACAGATGAAGGCTCAGGCTAGGGAGGAGAAACATCAGAAGCAGTTG
GAAAGGGCACAATTAGAGAATGAAAAGGAGAAAAGAGAAATAGCAGAA
AAGGAAAAGGAAAGAATAGAACGTGAAAAGGAAGAGCTAATGGAACGT
CTAAAACAAATTGAAGAGCAGACAATTAAAGCTCAGAAAAGAACTAGAA
GAACAGACTCGAAAAGCTCTAGAACTGGATCAAGAACGAAAACGAGCA
AAAGAAGAAGCAGAACGACTTGAAAAGGAGCGTCGAGCTGCTGAAGAG
GCAAAGTCTGCCATAGCAAAACAAGCTGCCGACCAGATGAAGAATCAG
GAGCAGCTAGCAGCAGAACTTGCTGAATTCCTGCCAAGATTGCACTT
CTAGAGGAAGCCAAGAAGAAAAAGGAAGAGGAAAGCTACTGAGTGGCAA
CACAAAGCTTTTTCAGCCCAGGAAGACTTGAAAAGACCAAAGAAGAG
TTAAAACCTGTGATGTCTGCCCCCCCTCCACCTCCACCACCACAGTC
ATTCCTCCAACAGAAAACGAACATGATGAACACGATGAGAATAATGCT
GAAGCTAGTGCTGAATTATCAAATGAAGGGGTAATGAACCATAGAAGC
GAGGAAGAACGTGTAACCGAAACACAGAAAAATGAGCGTGTAAAGAAG
CAACTTCAGGCATTAAGTTCAGAATTAGCCCAAGCCAGAGATGAAACC
AAGAAAACACAAAATGATGTTCTTCATGCTGAGAATGTTAAAGCAGGC
CGTGATAAGTACAAGACTCTGCGACAGATTCGACAAGGCAATACAAAG
CAGCGTATCGATGAGTTTGAAGCAATGTGAgcggcgc
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