

Division of Signal Transduction Therapy

Clone Data Sheet

ROCK1 [1 - 535]

Protein ROCK1 [1 - 535]

Clone number DU 51657

Species Human

Accession number NM_005406.2

Tags N-terminal GST

**Baculovirus
expressed protein**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFEL
GLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLE
GAVLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLN
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKY
LKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFGPLGSPGIPGSTR
AAMSTGDSFETRFEKMDNLLRDPKSEVNSDCLLDGLDALVYDLDFPAL
RKNKNIDNFLSRYKDTINKIRDLRMKAEDYEVVKVIGRGAFGEVQLVR
HKSTRKVYAMKLLSKFEMIKRSDSAFFWEERD IMAFANSPWVQLFYA
FQDDRYLYMVEYMPGGDLVNLMSNYDVPEKWARFYTAEVVLALDAIH
SMGF IHRDVKPDNMLLDKSGHLKLADFGTCMKMKEGMVRCDTAVGTP
DYI SPEVLKSQGGDGYYGRECDWWSVGVFLYEMLVGDTPFYADSLVGT
YSKIMNHKNSLTFPDDNDISKEAKNLICAF L TDREVR LGRNGVEEIKR
HLFFKNDQWAWETLRDTVAPVVPDLSSDIDTSNFDLEEDKGEETFP
IPKAFVGNQLPFVGFYYSNRRYLSSANPNDNRTSSNADKSLQESLQK
TIYKLEEQLHNEMQLKDEMEQKCRTSNIKLDKIMKELDEEGNQRRNLE
STVSQIEKEKMLLQHRINEYQRKAEQENEKRRNVENEVSTLKDQLEDL
KKVSQNSQL

Native sequence Amino acids M1 – L535 (end residue S1354) of human ROCK1.
Residue M243 of the fusion protein is equivalent to M1 of the native
enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission site (LEVLFQGP) residues 221 – 228

Cloning sites *Not1* sites of pFastBac GST 6P2

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Nucleotide
sequence of
insert

gcggccgcgATGTCGACTGGGGACAGTTTTGAGACTCGATTTGAAAA
ATGGACAACCTGCTGCGGGATCCCAAATCGGAAGTGAATTCGGATTGT
TTGCTGGATGGATTGGATGCTTTGGTATATGATTTGGATTTTCCTGCC
TTAAGAAAAACAAAAATATTGACAACTTTTTAAGCAGATATAAAGAC
ACAATAAAATAAAATCAGAGATTTACGAATGAAAGCTGAAGATTATGAA
GTAGTGAAGGTGATTGGTAGAGGTGCATTTGGAGAAGTTCAATTGGTA
AGGCATAAATCCACCAGGAAGGTATATGCTATGAAGCTTCTCAGCAAA
TTTGAAATGATAAAGAGATCTGATTCTGCTTTTTTCTGGGAAGAAAGG
GACATCATGGCTTTTGCCAACAGTCCTTGGGTTGTTTCAGCTTTTTTAT
GCATTCCAAGATGATCGTTATCTCTACATGGTGATGGAATACATGCCT
GGTGGAGATCTTGTAACCTTAATGAGCAACTATGATGTGCCTGAAAA
TGGGCACGATTCTATACTGCAGAAGTAGTTCCTTGCATTGGATGCAATC
CATTCCATGGGTTTTATTACAGAGATGTGAAGCCTGATAACATGCTG
CTGGATAAATCTGGACATTTGAAGTTAGCAGATTTTGGTACTTGTATG
AAGATGAATAAGGAAGGCATGGTACGATGTGATACAGCGGTTGGAACA
CCTGATTATATTTCCCTGAAGTATTAATAATCCCAAGGTGGTGATGGT
TATTATGGAAGAGAATGTGACTGGTGGTCGGTTGGGGTATTTTTATAC
GAAATGCTTGTAGGTGATACACCTTTTTTATGCAGATTCCTTTGGTTGGA
ACTTACAGTAAAAATTATGAACCATAAAAAATTCACCTTACCTTTCCTGAT
GATAATGACATATCAAAAAGCAAAAAACCTTATTTGTGCCTTTCCTT
ACTGACAGGGAAGTGAGGTTAGGGCGAAATGGTGTAGAAGAAATCAAA
CGACATCTCTTCTTCAAAAATGACCAGTGGGCTTGGGAAACGCTCCGA
GACACTGTAGCACCAGTTGTACCCGATTTAAGTAGTGACATTGATACT
AGTAATTTTGATGACTTGGGAAGAAGATAAAGGAGAGGAAGAAACATTC
CCTATTCCTAAAGCTTTTCGTTGGCAATCAACTACCTTTTGTAGGATTT
ACATATTATAGCAATCGTAGATACTTATCTTCAGCAAATCCTAATGAT
AACAGAACTAGCTCCAATGCAGATAAAAGCTTGCAGGAAAGTTTGCAA
AAAACAATCTATAAGCTGGAAGAACAGCTGCATAATGAAATGCAGTTA
AAAGATGAAATGGAGCAGAAGTGCAGAACCTCAAACATAAAACTAGAC
AAGATAATGAAAGAATTGGATGAAGAGGGAAATCAAAGAAGAAATCTA
GAATCTACAGTGTCTCAGATTGAGAAGGAGAAAATGTTGCTACAGCAT
AGAATTAATGAGTACCAAAGAAAAGCTGAACAGGAAAATGAGAAGAGA
AGAAATGTAGAAAATGAAGTTTCTACATTAAGGATCAGTTGGAAGAC
TTAAAGAAAGTCAGTCAGAATTCACAGCTTtaagcggccgc