

Division of Signal Transduction Therapy

Clone Data Sheet

SAPK2A D168A [1 - 360]

Protein SAPK2A D168A [1 - 360]

Clone number DU 12428

Species Human

Accession number L35264

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFEL
GLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLE
GAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLN
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKY
LKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFGQPPLGSM**SQERPTFY**
RQELNKTIWEVPERY**QNLSPVGS**GAYGSVCAAFDTKTGLRVAVKKLSR
PFQSIIHAKRTYRELRLKHKHENVIGLLDVFTPARSLEEFNDVYLV
THLMGADLNNIVK**CQ**KLTDHV**QFLIYQILRGLKYIHSADI**IHRDLKP
SNLAVNEDCELKIL**AFGLARHTD**DEMTGYVATRWRAP**EIMLNWMHYN**
QTVDIWSVGC**IMAELLTGR**TLFP**GT**DHID**Q**LK**LILRLV**GT**PGAELLKK**
ISSESARNYIQSLTQMPKMNFANVF**IGANPLAVDLLEKMLVLD**SDKRI
TAAQALAHAYFAQYHDPDDEPVADPYDQSFESRLLIDEWKSLTYDEV
ISFVPPPLDQEEMES

Native sequence Amino acids M1 – S360 (end) of human SAPK2A.

Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.

The enzyme has a D168**A** mutation, which produces a kinase dead enzyme. Residue D168A is equivalent to **A399** of the fusion protein.

Protease cleavage PreScission site (**LEVLFQGP**) residues 221 – 228

Cloning sites *Bam*H1 and *Not*1 sites of pGex6P1

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**Nucleotide
sequence of
insert**

ggatccATGTCTCAGGAGAGGCCACGTTCTACCGGCAGGAGCTGAAC
AAGACAATCTGGGAGGTGCCCGAGCGTTACCAGAACCTGTCTCCAGTG
GGCTCTGGCGCCTATGGCTCTGTGTGTGCTGCTTTTACACAAAAGACG
GGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTTCAGTCCATC
ATTCATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATG
AAACATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGG
TCTCTGGAGGAATTCAATGATGTGTATCTGGTGACCCATCTCATGGGG
GCAGATCTGAACAACATTGTGAAATGTCAGAAGCTTACAGATGACCAT
GTTTCAGTTCCTTATCTACCAAATCTCCGAGGTCTAAAGTATATACAT
TCAGCTGACATAATTCACAGGGACCTAAAACCTAGTAATCTAGCTGTG
AATGAAGACTGTGAGCTGAAGATTCTGGCTTTTGGACTGGCTCGGCAC
ACAGATGATGAAATGACAGGCTACGTGGCCACTAGGTGGTACAGGGCT
CCTGAGATCATGCTGAACTGGATGCATTACAACCAGACAGTTGATATT
TGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAAGAACATTG
TTTCCTGGTACAGACCATATTGATCAGTTGAAGCTCATTTTAAGACTC
GTTGGAACCCAGGGGCTGAGCTTTTGAAGAAAATCTCCTCAGAGTCT
GCAAGAACTATATTCAGTCTTTGACTCAGATGCCGAAGATGAACTTT
GCGAATGTATTTATTGGTGCCAATCCCCTGGCTGTCGACTTGCTGGAG
AAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGGCCCAAGCC
CTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACCA
GTGGCCGATCCTTATGATCAGTCCTTTGAAGCAGGGACCTCCTTATA
GATGAGTGAAAAGCCTGACCTATGATGAAGTCATCAGCTTTGTGCCA
CCACCCCTTGACCAAGAAGAGATGGAGTCctgagcggccgc