

## Product datasheet for **RC220257A1V**

### Human AKT1 (NM\_005163) AAV Particle

#### Product data:

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Type:             | AAV Particles                              |
| Product Name:             | Human AKT1 (NM_005163) AAV Particle        |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | AKT1                                       |
| Synonyms:                 | AKT; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA |
| Mammalian Cell Selection: | None                                       |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                 |



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**ORF Nucleotide  
Sequence:**

>RC220257 representing NM\_005163  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGAGCGACGTGGCTATTGTGAAGGAGGTTGGCTGCACAAACGAGGGAGTACATCAAGACCTGGCGGC  
 CACGCTACTTCTCTCAAGAATGATGGCACCTTCATTGGCTACAAGGAGCGGCCGAGGATGTGGACCA  
 ACGTGAGGCTCCCTCAACAACCTCTCTGTGGCGCAGTGCCAGCTGATGAAGACGGAGCGGCCCGGCC  
 AACACCTTCATCATCCGCTGCCTGCAGTGGACCACTGTCATCGAACGCACCTTCATGTGGAGACTCCTG  
 AGGAGCGGGAGGAGTGGACAACCGCCATCCAGACTGTGGCTGACGGCCTCAAGAAGCAGGAGGAGGAGGA  
 GATGGACTTCCGGTCGGGCTACCCAGTGACAACCTCAGGGGCTGAAGAGATGGAGGTGTCCTGGCCAAG  
 CCCAAGCACCGCTGACCATGAACGAGTTTGTACCTGAAGCTGCTGGGCAAGGGCACTTCGGAAGG  
 TGATCCTGGTGAAGGAGAAGGCCACAGCCGCTACTACCCATGAAGATCCTCAAGAAGGAAGTCATCGT  
 GGCCAAGGACGAGGTGGCCACACACTACCGAGAACCCTGCTGCAGAACTCCAGGCACCCCTTCCTC  
 ACAGCCCTGAAGTACTCTTCCAGACCCACGACCGCTCTGCTTGTATGGAGTACGCCAACGGGGGCG  
 AGCTGTTCTTCCACCTGTCCCGGAACGTGTGTCTCCGAGGACCGGGCCCGCTTCTATGGCGCTGAGAT  
 TGTGTACGCCCTGGACTACCTGCACTCGGAGAAGAACGTGGTGTACCGGGACCTCAAGCTGGAGAACCTC  
 ATGCTGGACAAGGACGGGCACATTAAGATCACAGACTTCGGGCTGTGCAAGGAGGGGATCAAGGACGGTG  
 CCACCATGAAGACCTTTTGCAGCACCTGAGTACCTGGCCCCGAGGTGCTGGAGGACAATGACTACGG  
 CCGTGCACTGGACTGGTGGGGCTGGGCGTGGTGTACGAGATGATGTGGGTGCGCTGCCCTTCTAC  
 AACCAGGACCATGAGAAGCTTTTGTAGCTCATCTCATGGAGGAGATCCGCTTCCCGCGCACGCTTGGTC  
 CCGAGGCCAAGTCCTTGTCTTTCAGGGCTGCTCAAGAAGGACCCCAAGCAGAGGCTTGGCGGGGCTCCGA  
 GGACGCCAAGGAGATCATGCAGCATCGCTTCTTTGCCGGTATCGTGTGGCAGCAGCTGTACGAGAAGAAG  
 CTCAGCCACCCCTTCAAGCCCCAGGTACGTCGGAGACTGACACCAGGTATTTTGTAGGAGTTACAGG  
 CCCAGATGATACCATCACACCCTGACCAAGATGACAGCATGGAGTGTGTGGACAGCGAGCGCAGGCC  
 CCATTTCCCCAGTTCTCTACTCGGCCAGCGGCACGGCC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC220257 representing NM\_005163  
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MSDVAIVKEGWLHKGREYIKTWPRPYFLLKNDGTFIGYKERPDVDQREAPLNNFSVAQCQLMKTERPRP  
 NTFIIRCLQWTTVIERTFHVETPEEREWTTAIQTVDGLKKQEEEEMDFRSGSPSDNSGAEEMEVS  
 LAKPKHRVTMNEFEYLKLLGKGTGKVLVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFL  
 TALKYSFQTHDRLCFVMEYANGGELFFHLRERVFSEDRARFYGAIEVSALDYLHSEKNVYRDLKLENL  
 MLDKDGHIKITDFGLCKEIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFY  
 NQDHEKLFELILMEEIRFPRTLGPPEAKSLLSGLLKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVEYK  
 LSPPFPKQVTSETDTRYFDEEFTAQMITITPPDQDSMECVDSERRPHFPQFSYSASGTA

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Species:**

Human

**Serotype:**

AAV-2

**ACCN:**

NM\_005163

**ORF Size:**

1440 bp

**Buffer:**

PBS with 0.001% Pluronic F68

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stability:    | AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus. |
| RefSeq:       | <u>NM_005163.2, NP_005154.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RefSeq Size:  | 3008 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq ORF:   | 1443 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Locus ID:     | 207                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt ID:   | <u>P31749</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cytogenetics: | 14q32.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW:           | 55.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |