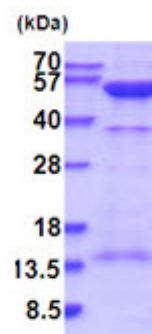


## AR51870PU-S

## Human PRKAR2A (1-404, His-tag) - Purified

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alternate names:</b>  | PKA R2, PKA RII, PKR2, PRKAR2, cAMP-dependent protein kinase type II-alpha regulatory subunit, protein kinase A RII-alpha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Quantity:</b>         | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration:</b>    | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background:</b>       | PRKAR2A also known as cAMP-dependent protein kinase type II-alpha regulatory subunit. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Uniprot ID:</b>       | <a href="#">P13861</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>NCBI:</b>             | <a href="#">NP_004148</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>GeneID:</b>           | <a href="#">5576</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source:</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format:</b>           | <b>State:</b> Liquid purified protein<br><b>Purity:</b> >85% by SDS - PAGE<br><b>Buffer System:</b> Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description:</b>      | Recombinant human PRKAR2A, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.<br><b>AA Sequence:</b><br>MGSSHHHHH SGLVPRGSH MGSMHIQIP PGLTELLQGY TVEVLRQPPP DLVEFAVEYF<br>TRLREARAPA SVLPAATPRQ SLGHPPPEPG PDRVADAKGD SESEEDLE VPVPSRFNRR<br>VSVCAETYNP DEEEEDTDPRIHPKTDEQR CRLQEACKDI LLFKNLDQEQ LSQVLDAMFE<br>RIVKADEHVI DQGDDGDNFY VIERGTYDIL VTKDNQTRSV GQYDNRGSFG ELALMYNTPR<br>AATIVATSEG SLWGLDRVTF RRIIVKNNAK KRKMFESEFIE SVPLLSLEV SERMKIVDVI<br>GEKIYKDGER IITQGEKADS FYIIESGEVS ILIRSRTKSN KDGGNQEVEI ARCHKGQYFG<br>ELALVTNKPR AASAYAVGDV KCLVMDVQAF ERLLGPCMDI MKRNISHYEE QLVKMFSSV<br>DLGNLGQ<br><b>Molecular weight:</b> 48.6 kDa (434aa) confirmed by MALDI-TOF |
| <b>Storage:</b>          | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>General Readings:</b> | Yang H., et al. (2013) J. Biol. Chem. 288 (12), 8737-8749                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Pictures:



15% SDS-PAGE (3ug)