



Recombinant Human AKT1 Protein Product Manual

1. Product Basic Information

Product No.: REP06100

Protein Name: Pkb Alpha (AKT1)

Aliases: AKT; PKB; RAC; AKT1m; PRKBA; PKB alpha; PKB-ALPHA; RAC-ALPHA; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha; RAC-alpha serine/threonine-protein kinase

UniProt ID: P31749

UniProt Link: <https://www.uniprot.org/uniprotkb/P31749/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-480aa)

Molecular Weight: 62.6 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (1-480aa)

MSDVAIVKEGWLHKGGEYIKTWRPRYFLLKNDGTFIGYKERPQDVDQREAPLNNFS
VAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREETTAIQTVADGLKKQ
EEEEMDFRSGSPSDNSGAEEMEVS LAKPKHRVTMNEFEYLKLLGKGTFGKVLVKE
KATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCFV
MEYANGGELFFHL SRERVFSEDRARFYGA EIVSALDY LHSEKNVVYRDLKLENLML
DKDGHIKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVV
MYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLGP EAKSLLSGLLKKDPKQRLGG
GSEDAKEIMQHRFFAGIVWQH VYEKKLSPPFKPQVTSETDTRYFDEEFTAQMITITP
PDQDDSMECVDSERRPHFPQFSYSASGTA

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human AKT1 full length protein (1-480aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. AKT1, also known as AKT or PKB or RAC, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.