

Recombinant Rat AKAP6 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52609

Size: 10ug, 100ug

Protein Name: A-kinase anchor protein 6 (AKAP-6) (Protein kinase A-anchoring protein 6) (PRKA6) (mAKAP)

Synonym: Akap6

UniProt ID: Q9WVC7

UniProt Link: www.uniprot.org/uniprotkb/Q9WVC7/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 2314 AA

Molecular Weight: 254 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLTMSVTLSPQRSQGPDPMATDASPMANMTPTVEQEEGEGEEAVKAIDAEQQYGKPPPLHTAAD
WKIVLHLPETITWLRMTSERVRDLTYSVQQDADSKHVDVHLVQLKDICEDISDHVEQIHALLETEFSL
KLLSYSVNVIVDIHAVQLLWHQLRVSVLVLRRERILQGLQDANGNYTRQTDILQAFSEETTEGRDLSLT
EVDDSGQLTIKCSQDYLSLDCGITAFELSDYSPSEDLGGLGDMTTSQAATKSFDWSYSEMEKEFP
ELIRSVGLLTVATEPVPSSCGEANEDSSQASLSDDHKGEHGEDGAPVPGQQLDSTVGMSSLDGTLA
NAAEHPSETAKQDSTSSPQLGAKKTQPGPCEITTPKRSIRDCFNYNEDSPTQPTLPKRGLFLKETQK
NERKGS DRKGQVVDLKPESRSTPSLVDPPDRSKLCLVLQSSYPSSPSAASQSYECLHKVGLGNLE
NIVRSHIKEISSSLGRLTDCHKEKLRLLKPKHTLAESVSLCRIPKQGGGSGKRSESTGSSAGPSMVSPG
APKATMRPETDSASTASGGLCHQRNRSGQLPVQSKASSPSPSHSSSESLGSDSIKSPVPLLSKNK
SQKSSPPAPCHATQNGQVVEAWYGSDEYLALPSHLKQTEVLALKLES LTKLLPQKPRGETIQDIDDW
ELSEMNSDSEIYPTYHIKKKHTRLGTVSPSSSSDIASSLGESIESGPLSDILSDEDLCLPLSSVKKFTDE
KSERPSSSEKNESH SATRSALIQKLMHDIQH QENY EAIWERIEGFVNKLDEFIQWLNEAMETTENWT
PPKAETDSLRLYLETHLSFKLNVDSHCALKEAVEEEGHQLLELVVSHKAGLKD TLRMIASQWKELQR
QIKRQHSWILRALDTIKAEILATDVSVEDEEGTGSPKAQVQLCHLETQRDAVEQMSLKLYSEQYTS GS
KRKEEFANMSKAHAEGSNGLLDFDSEYQELWDWLIDMESLVMDSHDLMMSEEQQQLHYKRY SVE
MSIRHLKKSELLSKVEALKKGGLSLPDDILEKVD SINEKWELLGKTLREKIQDTIAGHSGSGPRDLLSP
ESGSLVRQLEVRKELKRWL RDTL FIFNSCLRQEKEGTS AEKQLQYFKSLCREIKQRRRGVASILRL
CQHLLDDRDT CNLNADHQPMQLIIVNLERRWEAIVMQAVQWQTRLQKKMGKES ETLNVIDPGLMDL



NGMSEDALEWDETDISNKLISVHEESNDLDQDPEPMLPAVKLEETHHKDSGYEEEEAGDCGGSPYTS
NITAPSSPHIYQVYSLHNVELHEDSHTPFLKSSPKFTGTTQPTVLTKSLSKDSSFSSTKSLPDLLGGS
GLVRPYSCHSGDLSQNSGSESGIVSEGDNEMPTNSDMSLFSMVDGSPSNPETEHPDPQMGDAAN
VLEQKFKDNGESIKLSSSVRASVSPVGCVNGKAGDLNSVTKHTADCLGEELQGKHDFVTFYDYSYL
QGSKLKLPIMMKQPQSEKAHVEDPLLGGFYFDKKSCAKHQASESQPDAPPHERILASAPHEMGRS
AYKSSDIEKTFTGIQSARQLSLLSRSSSVESLSPGGDLFGLGIFKNGSDSLQRSTLSLESWLT SYKSNE
DLFSCHS SSGDISVSSGSGV GELSKRTL DLLNRL ENIQSPSEQKIKRSVSDMTLQSSSQKMPFAGQMSL
DVASSINEDSPASLTLS SSSDEL SLCSEDIVLHKNKIPESNASFRKRLNRSVADES DVNVSMIVNVSCT
SACTDDEDDSDLLSSSTLT LTEEEL CLKDEDDDDSSIATDDEIYEESNLMSGLDYIKNELQ TWIRPKLSL
TREKKRSGVTDEIKVNKDGGGNEKANPSDTLDIEALLNGSIRCLSENNGNGKTPPRTHGSGTKGEN
KKSTYDVSKDPHVADMENGNIESTPEREREKPPQGLPEVSENLASNVKTISESELSEYEAVMDGSED
SSVARKEFCPPNDRHPPQMGPQLQHPENQSGDCKPVQNP CPGLLSEAGVGSRQDSNGLKSLPND
APSGARKPAGCCLEQNETEESASISSNASCCNCKPDVFHQKDDDCSVHDFVKEIIDMASTALKSK
SQPESEVAAPTSLTQIKEKVLEHSHRPIHLRKGDFYSYLSLSSHSDSCGEVTNYIDEKSSTPLPPDAV
DSGLDDKEDMDCFFEACVEDEPVNEEAGLP GALPNESAIEDGAEQKSEQKTASSPVLSDKTDLVPL
SGLSPQKGADDAKEGDDVSHTSQGCAESTEPTTPSGKANAEGRSRMQGVSATPEENAASAKPKIQ
AFSLNAKQPKGKVAMRYPSPQTLTCKEKL VNFHEDRHSNMHR

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant A-kinase anchor protein 6 (AKAP-6) (Protein kinase A-anchoring protein 6) (PRKA6) (mAKAP) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Binds to type II regulatory subunits of protein kinase A and anchors/targets them to the nuclear membrane or sarcoplasmic reticulum. May act as an adapter for assembling multiprotein complexes (By similarity).

Subcellular Localization: Sarcoplasmic reticulum. Nucleus membrane. Note=In heart muscle. Participation of multiple targeting signals allow correct intracellular targeting. These may be repeated motifs rich in basic and hydrophobic amino acids, palmitoylated/myristoylated motifs or alternatively splice targeting sequences.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.



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- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.