

Recombinant Full Length Human AKAP5 Protein, GST-tagged

Cat. No. AKAP5-1349HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AKAP5 full-length ORF (NP_004848.2, 1 a.a. - 427 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	427 amino acids
Description	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein binds to the RII-beta regulatory subunit of PKA, and also to protein kinase C and the phosphatase calcineurin. It is predominantly expressed in cerebral cortex and may anchor the PKA protein at postsynaptic densities (PSD) and be involved in the regulation of postsynaptic events. It is also expressed in T lymphocytes and may function to inhibit interleukin-2 transcription by disrupting calcineurin-dependent dephosphorylation of NFAT. [provided by RefSeq, Jul 2008]
Molecular Mass	73.5 kDa
AA Sequence	METTISEIHV ENKDEKRS AE GSPGAERQKE KASMLCFKRR KKAALKPKP AGSEAADV AR KCPQEAGASD QPEPTRGAWA SLKRLVTRRK RSESSKQQKP LEGEMQPA IN AEDADLSKKK AKSRLKIPCI KFPRGPKRSN HSKIIEDSDC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SIKVQEEAEI LDIQTQTPLN DQATKAKSTQ DLSEGISRKD GDEVCESNVS
 NSITSGEKVI SVELGLDNGH SAIQTGTLIL EEIETIKEKQ DVQPQQASPL
 ETSETDHQQP VLSDVPPLPA IPDQQIVEEA SNSTLESAPN GKDYESTEIV
 AEETKPKDTE LSQESDFKEN GITEEKSSE ESKRMEPIAI IITDTEISEF
 DVTKSKNVPK QFLISAENEQ VGVFANDNGF EDRTSEQYET LLIETASSLV
 KNAIQLSIEQ LVNEMASDDN KINNLLQ

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

AKAP5 A kinase (PRKA) anchor protein 5 [Homo sapiens]

Official Symbol

AKAP5

Synonyms

AKAP5; A kinase (PRKA) anchor protein 5; A-kinase anchor protein 5; AKAP75;
 AKAP79; AKAP-5; AKAP 79; A-kinase anchor protein 79 kDa; A-kinase anchor
 protein, 79kDa; A-kinase anchoring protein 75/79; cAMP-dependent protein kinase
 regulatory subunit II high affinity binding protein; cAMP-dependent protein kinase
 regulatory subunit II high affinity-binding protein; H21

Gene ID

9495

mRNA Refseq

NM_004857

Protein Refseq

NP_004848

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MIM	604688
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UniProt ID	P24588
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