

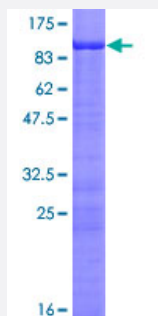
Full-Length

AKAP5 (Human) Recombinant Protein (P01)

Catalog # H00009495-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AKAP5 full-length ORF (NP_004848.2, 1 a.a. - 427 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

METTISEIHVENKDEKRSAEGSPGAERQKEKASMLCFKRRKKAALKPKAGSEAADVARKCPQ
EAGASDQPEPTRGAWASLKRLVTRRKRSESSKQKPLEGEMQPAINAEDADLSKKKAKSRLKIP
CIKFRGPKRSNHSKIIEDSDCSIKVQEEAEILDITQTPLNDQATKAKSTQDLSEGISRKDGDEV
ESNVSNSITSGEKVISVELGLDNGHSAIQTGTLILEEIIETIKEKQDVQPQQASPLETSETDHQQPVLS
DVPPLPAIPDQQVVEEASNSTLESAPNGKDYESTEMAEETKPKDTELSQESDFKENGITEEKS
EESKRMEPIAIIITDTEISEFDVTKSKNVPKQFLISAENEQVGVFANDNGFEDRTSEQYETLLIETASS
LVKNAIQLSIEQLVNEMASDDNKINLLQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.5

Interspecies Antigen Sequence

Mouse (48); Rat (47)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — AKAP5

Entrez GeneID	9495
GeneBank Accession#	NM_004857.2
Protein Accession#	NP_004848.2
Gene Name	AKAP5
Gene Alias	AKAP75, AKAP79, H21
Gene Description	A kinase (PRKA) anchor protein 5
Omim ID	604688
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	A-kinase anchor protein 5 A-kinase anchor protein, 79kDa A-kinase anchoring protein 75/79 cAMP-dependent protein kinase regulatory subunit II high affinity binding protein