

## Recombinant Human AKAP5 Protein, GST-tagged

Cat. No. AKAP5-401H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human AKAP5 full-length ORF ( NP_004848.2, 1 a.a. - 427 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	73.5 kDa
<b>AA Sequence</b>	<p>METTISEIHVENKDEKRSAEGSPGAERQKEKASMLCFKRRKKAALKPKAGSEAA            DVARKCPQEAGASDQPEPTRGAWASLKRLVTRRKRSESSKQQKPLEGEMQPAINA            EDADLSKKKAKSRLKIPCIKFPKRSNHSKIIEDSDCSIKVQEEAEILDIQTQTPLND            QATKAKSTQDLSEGISRKDGDEVCSNVSNSITSGEKVISVELGLDNGHSAIQTGTLI</p>

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LEEIETIKEKQDVQPQQASPLETSETDHQQPVLSDVPPLPAIPDQQIVEEASNSTLES  
 APNGKDYESTEIVAEETKPKDTELSQESDFKENGITEEKSSEESKRMEPIAIIITDEI  
 SEFDVTKSKNVPKQFLISAENEQVGVFANDNGFEDRTSEQYETLLIETASSLVKNAIQ  
 LSIEQLVNEMASDDNKINLLQ

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

**Notes** Best use within three months from the date of receipt of this protein.

**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](#)

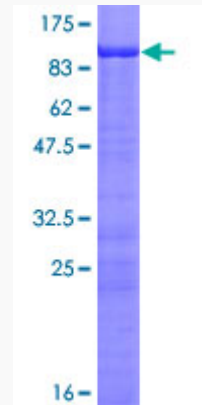
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MIM 604688

UniProt ID P24588



12.5% SDS-PAGE Stained with Coomassie Blue.

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