Recombinant Human AKAP5, His-tagged

Cat. No. AKAP5-3030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A-kinase anchor protein 5 (AKAP5)
Species	Human
Source	E.Coli/Yeast
ProteinLength	427
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]
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of AKAP5 recombinant protein may occasionally become entrapped in

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	the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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
MIM	604688

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UniProt ID	P24588
Chromosome Location	14q21-q24
Pathway	Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity, organism-specific biosystem; Integration of energy
Function	adenylate cyclase binding; calmodulin binding; protein binding; protein kinase A binding;

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