

Recombinant Human AKAP5, His-tagged

Cat. No. AKAP5-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human A-Kinase Anchor Protein 5/AKAP5 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Gln427) of Human AKAP5 fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-427 a.a.
Description	A-Kinase Anchor Protein 5 (AKAP5) is a member of the AKAP family. AKAP5 contains one AKAP domain and is predominantly expressed in the cerebral cortex. AKAP5 may anchor the PKA protein to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors. AKAP5 association with to the β -2-adrenergic receptor (β 2-AR) not only regulates β 2-AR signaling pathway, but also the activation by PKA by switching off the β 2-AR signaling cascade.
AA Sequence	METTISEIHVENKDEKRSAEGSPGAERQKEKASMLCFKRRKKAALKPKAGSEAA DVARCKPQE AGASDQPEPTRGAWASLKRLVTRRKRSSESKQKPLEGEMQPAINA EDADLSKKKAKSRLKIPCI KFPRGPKRSNHSHKIIEDSDCSIKVQEEAEILDIQTQTPLN DQATKAKSTQDLSEGISRKDGDEVC ESNVSNSITSGEKVISVELGLDNGHSAIQGT LILEEIIETIKEKQDVQPQQASPLETSETDHQQP VLSDVPPLPAIPDQQIVEEASNSTLE SAPNGKDYESTEIVAEETKPKDTELSQESDFKENGITEE KSKSEESKRMEPIAIIITDT

 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

EISEFDVTKSKNVPKQFLISAENEQVGVFANDNGFEDRTSEQYET LLIETASSLVKNA
IQLSIEQLVNEMASDDNKINNLLQVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

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

UniProt ID P24588

Chromosome Location 14q21-q24

 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

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 metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Receptor Binding And Downstream Transmission In The Postsynaptic Cell, organism-specific biosystem;

Function

adenylate cyclase binding; calmodulin binding; protein binding; protein kinase A binding;

 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