

Recombinant Human AKAP9, His-tagged

Cat. No. AKAP9-26527TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 3496-3773 of Human AKAP9 with N terminal His tag; 278 amino acids, 32kDa.
Species	Human
Source	E.coli
ProteinLength	3496-3773 a.a.
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. Alternate splicing of this gene results in at least two isoforms that localize to the centrosome and the Golgi apparatus, and interact with numerous signaling proteins from multiple signal transduction pathways. These signaling proteins include type II protein kinase A, serine/threonine kinase protein kinase N, protein phosphatase 1, protein phosphatase 2a, protein kinase C-epsilon and phosphodiesterase 4D3.
Conjugation	HIS
Tissue specificity	Widely expressed. Isoform 4 is highly expressed in skeletal muscle and in pancreas.
Form	Lyophilised:Reconstitute with 82 µl aqua dest.

 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

Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GGTGCNHELEMIRQKLQCVASKLQVLPQKASERLQFETAD DEDFIWVQENIDEIILQ LQKLTGQQGEEPSLVSPSTSC GSLTERLLRQNAELTGHISQLTEEKNDLRNMVMKL EEQIR WYRQTGAGRDNSSRFSNLGGANIEAIIASEKEVWNREK LTLQKSLKRAEAE VYKLKAELRNDSSLQTLSPDSEHVT LKRIYGKYLRAESFRKALIQKKYLLLLLGGFQ ECEDATL ALLARMGGQPAFTDLEVITNRPKGFTFRSAVRVSAI SRMKFL

GENE INFORMATION

Gene Name	AKAP9 A kinase (PRKA) anchor protein (yotiao) 9 [Homo sapiens]
Official Symbol	AKAP9
Synonyms	AKAP9; A kinase (PRKA) anchor protein (yotiao) 9; A-kinase anchor protein 9; A kinase anchor protein; 350kDa; A kinase anchoring protein 450; AKAP9 BRAF fusion protein; AKAP120 like protein; AKAP350; AKAP450; centrosome and golgi localized protein; CG NA
Gene ID	10142
mRNA Refseq	NM_005751
Protein Refseq	NP_005742
MIM	604001
Uniprot ID	Q99996

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Chromosome Location	7q21-q22
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem;
Function	kinase activity; protein binding; receptor binding;

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