

Recombinant Human AKAP5 293 Cell Lysate

Cat. No. AKAP5-8939HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for A kinase (PRKA) anchor protein 5 (AKAP5) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 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

Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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

Pathway

Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; Glutamate Binding, Activation of

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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;

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