

Recombinant Human AKAP1 293 Cell Lysate

Cat. No. AKAP1-8942HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for A kinase (PRKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein 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.

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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 [AKAP1 A kinase \(PRKA\) anchor protein 1 \[Homo sapiens \]](#)

Official Symbol AKAP1

Synonyms

AKAP1; A kinase (PRKA) anchor protein 1; PRKA1; A-kinase anchor protein 1, mitochondrial; AKAP84; AKAP121; AKAP149; D AKAP1; dual specificity A kinase anchoring protein 1; PPP1R43; protein kinase anchoring protein 1; protein phosphatase 1; regulatory subunit 43; S AKAP84; SAKAP84; AKAP 149; D-AKAP-1; protein kinase A1; A-kinase anchor protein 149 kDa; protein kinase A anchoring protein 1; spermatid A-kinase anchor protein 84; protein phosphatase 1, regulatory subunit 43; dual-specificity A-kinase anchoring protein 1; AKAP; D-AKAP1; MGC1807;

Gene ID [8165](#)

mRNA Refseq [NM_001242902](#)

Protein Refseq [NP_001229831](#)

MIM [602449](#)

UniProt ID [Q92667](#)

Chromosome Location 17q21-q23

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Pathway	Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	RNA binding; beta-tubulin binding; microtubule binding; protein binding; protein complex scaffold; protein domain specific binding; protein kinase A regulatory subunit binding; protein kinase binding; protein phosphatase 2B binding;

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