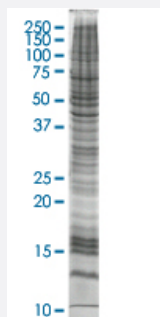


# AKAP10 HEK293 Cell Transient Overexpression Lysate(Non-Denatured)

Catalog # L144T6

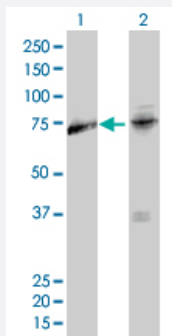
Size 100 ug

## Applications



### SDS-PAGE Gel

AKAP10 transfected lysate



### Western Blot

Lane 1: AKAP10 transfected lysate ( 74 KDa).

Lane 2: Non-transfected lysate.

## Specification

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Transfected Cell Line | HEK293                                                                                                                                |
| Plasmid               | pCMV-AKAP10 full length                                                                                                               |
| Host                  | Human                                                                                                                                 |
| Theoretical MW (kDa)  | 74                                                                                                                                    |
| Lysis Buffer          | Modified RIPA Lysis Buffer:50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF. |
| Concentration         | 2 mg/ml                                                                                                                               |

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-AKAP10 antibody ([H00011216-M04](#)) by Western Blots.  
SDS-PAGE Gel  
AKAP10 transfected lysate  
Western Blot  
Lane 1: AKAP10 transfected lysate ( 74 KDa).  
Lane 2: Non-transfected lysate.

**Recommend Usage**

Use it directly for immuno-precipitation, or heat lysate with SDS gel loading buffer to 95°C for 5 minutes followed by rapid cooling for western blot application. If dissociating conditions are required, add reducing agent prior to heating.

**Storage Buffer**

In modified RIPA Lysis Buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot
- Immunoprecipitation

[Protocol Download](#)

## Gene Info — AKAP10

Entrez GeneID [11216](#)

GeneBank Accession# [NM\\_007202](#)

Protein Accession# [NP\\_009133](#)

Gene Name AKAP10

Gene Alias D-AKAP2, MGC9414, PRKA10

Gene Description A kinase (PRKA) anchor protein 10

Omim ID [152430 604694](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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 interacts with both the type I and type II regulatory subunits of PKA; therefore, it is a dual-specific AKAP. This protein is highly enriched in mitochondria. It contains RGS (regulator of G protein signalling) domains, in addition to a PKA-RII subunit-binding domain. The mitochondrial localization and the presence of RGS domains may have important implications for the function of this protein in PKA and G protein signal transduction. [provided by RefSeq]

**Other Designations**

A-kinase anchor protein 10|dual-specificity A-kinase anchoring protein 2|mitochondrial A kinase PPKA anchor protein 10|protein kinase A anchoring protein 10

**Disease**

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- [Arrhythmias](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
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- [Hypertension](#)
- [Kidney Failure](#)
- [Long QT Syndrome](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
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- [Werner syndrome](#)