# Recombinant Human AKAP4 Protein, His-tagged

**Cat. No.** AKAP4-109H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human AKAP4 Protein (Gln189-Arg373) with N-His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Gln189-Arg373 |
| **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. The encoded protein is localized to the sperm flagellum and may be involved in the regulation of sperm motility. Alternative splicing of this gene results in two transcript variants encoding different isoforms. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 23.9 kDa<br>Accurate Molecular Mass: 27 kDa |
| **Purity** | > 90% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |

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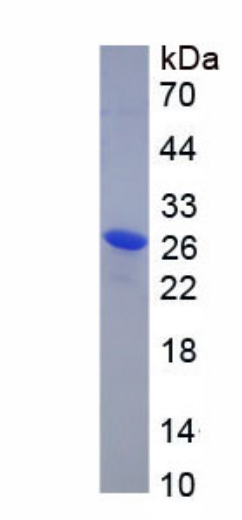
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| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | AKAP4 A kinase (PRKA) anchor protein 4 [ Homo sapiens (human) ] |
| **Official Symbol** | AKAP4 |
| **Synonyms** | AKAP4; A kinase (PRKA) anchor protein 4; A-kinase anchor protein 4; A kinase anchor protein 82 kDa; AKAP82; cancer/testis antigen 99; CT99; Fsc1; hAKAP82; HI; p82; protein kinase A anchoring protein 4; testis specific gene HI; testis-specific gene HI; A-kinase anchor protein 82 kDa; major sperm fibrous sheath protein; protein kinase A-anchoring protein 4; FSC1; PRKA4; AKAP-4; AKAP 82 |
| **Gene ID** | 8852 |
| **mRNA Refseq** | NM_003886 |
| **Protein Refseq** | NP_003877 |

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| **MIM** | 300185 |
| **UniProt ID** | Q5JQC9 |




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