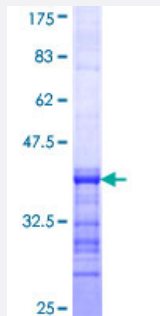


AKAP10 (Human) Recombinant Protein (Q01)

Catalog # H00011216-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AKAP10 partial ORF (NP_009133, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRGAGPSPRQSPRTLRLPDGPAMSFRRKVKGKEQEKTSDVKSISVHSPQKSTKNHALLE AAGPSHVAINAISANMDSFSSSRTATLKKQPSHMEA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (89); Rat (90)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

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

- [Adenocarcinoma](#)

- [Arrhythmias](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
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- [Long QT Syndrome](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
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- [Werner syndrome](#)