

Recombinant Human AKAP12 protein, His-tagged

Cat. No. AKAP12-8983H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AKAP12(Pro1485~Ser1782) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro1485~Ser1782
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 expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinases A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	36.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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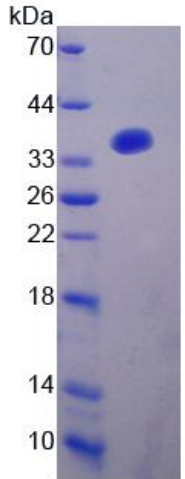
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein 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.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	AKAP12 A kinase (PRKA) anchor protein 12 [Homo sapiens]
Official Symbol	AKAP12
Synonyms	AKAP12; A kinase (PRKA) anchor protein 12; A kinase (PRKA) anchor protein (gravin) 12; A-kinase anchor protein 12; AKAP250; gravin; Src Suppressed C Kinase Substrate; SSeCKS; AKAP 250; kinase scaffold protein gravin; A-kinase anchor protein, 250kDa; Src-Suppressed C Kinase Substrate; myasthenia gravis autoantigen gravin; FLJ20945; FLJ97621; DKFZp686M0430; DKFZp686O0331;
Gene ID	9590
mRNA Refseq	NM_005100

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Protein Refseq	NP_005091
MIM	604698
UniProt ID	Q02952
Chromosome Location	6q24-q25
Pathway	G Protein Signaling Pathways, organism-specific biosystem;
Function	adenylate cyclase binding; protein binding; protein kinase A binding;



15% SDS-PAGE