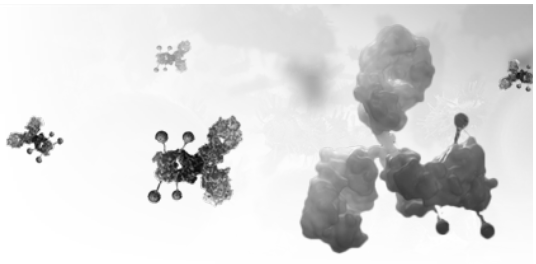

# Human AKAP12 peptide (DAG-P0001)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen 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. [provided by RefSeq, Jul 2008] |
| **Specificity** | Expressed in endothelial cells, cultured fibroblasts and osteosarcoma, but not in platelets, leukocytes, monocytic cell lines or peripherical blood cells. |
| **Purity** | 70 - 90% by HPLC. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Contains 3 AKAP domains. |
| **Format** | Liquid |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | AKAP12 A kinase (PRKA) anchor protein 12 [ Homo sapiens (human) ] |
| **Official Symbol** | AKAP12 |

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| **Synonyms** | AKAP12; A kinase (PRKA) anchor protein 12; SSeCKS; AKAP250; A-kinase anchor protein 12; AKAP 250; kinase scaffold protein gravin; A-kinase anchor protein, 250kDa; Src-Suppressed C Kinase Substrate; myasthenia gravis autoantigen gravin; |
| **Entrez Gene ID** | 9590 |
| **mRNA Refseq** | NM_005100.3 |
| **Protein Refseq** | NP_005091.2 |
| **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; |

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