

Datasheet for ABIN7562089
AKAP5 Protein (AA 1-745) (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | AKAP5 |
| Protein Characteristics: | AA 1-745 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This AKAP5 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| | |
|-----------|---|
| Purpose: | Custom-made recombinat Akap5 Protein expressed in mammalien cells. |
| Sequence: | METSVSEIQV ETKDEKGPVA ASPQKERQER KTATLCFKRR KKANKTKPKA GSRTAEETKK HTPEAGGSGQ RQPAGAWASI KGLVTHRKRS EPAKKQKPPE AEVQPEDGAL PKKKAKSRLK FPCLRFSRGA KRSRHSKLTE DSGYVRVQGE ADDLEIKAQT QPDDQAIQAG STQGLQEGVL VRDGKKSQES HISNSVTSGE NVIAIELELE NKSSAIQMG T PELEKETKVI TEKPSVQTQR ASLLESSAAG SPRSVTSAAP PSPATTHQHS LEEPSNGIRE SAPSGKDDRR KTAEEKKS ETALGQAEAA AVGQADKRAL SQAGEATAGH PEEATVIQAE SQAKEGKLSQ AEETTVAQAK ETVLSQAKEG ELSQAKKATV GQAEATIDH TEKVTVDQAE ETTVGQAEAA TVGQAGEAIL SQAKEATVVG QAEATVDRA EEATVGQAE ATVGHTEKVT VDQAEATVG QAEATVGQA EEATVDWAEK PTVGQAEAT VGQAEATVG HTEKVTVDQA EEATVGQAE ATVGHTEKVT VDHAEATVG QAEATVGQA EKVTVDHAE ATVGQAEAT VGQAEKVTVD HAEATVGQA EEATVGQAEK VTDQAEPT VDQAEAAISS HAPDLKENGI DTEKPRSEES KRMEPIAIII |

TDTEISEFDV KSKSNVPKQF LISMENEQVG VFANDSDFEG RTSEQYETLL IETASSLVKN
AIELSVEQLV NEMVSEDNQI NTLFQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

AKAP5

Alternative Name:

Akap5 ([AKAP5 Products](#))

Target Type:

Viral Protein

Background:

A-kinase anchor protein 5 (AKAP-5) (A-kinase anchor protein 150 kDa) (AKAP 150) (P150) (cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein),FUNCTION: Multivalent scaffold protein that anchors the cAMP-dependent protein kinase/PKA to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors. Association with the beta2-adrenergic receptor (beta2-AR) not only regulates beta2-AR signaling pathway, but also the activation by PKA by switching off the beta2-AR signaling cascade. Plays a role in long term synaptic potentiation by regulating protein trafficking from the dendritic recycling endosomes to the plasma membrane and

Target Details

controlling both structural and functional plasticity at excitatory synapses.
{ECO:0000250|UniProtKB:P24588}.

Molecular Weight: 79.4 kDa

UniProt: [D3YVF0](#)

Pathways: [cAMP Metabolic Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months