Bioworld Technology CO., Ltd.

AKAP 5 (E7) Peptide

Cat No.: BS1962P

Background

AKAPs (A-kinase anchoring proteins), as their name implies, are a family of scaffolding proteins that bind regulatory subunits of Protein Kinase A (PKA) thus localizing PKA activity to distinct regions of the cell. Beyond a common amphipathic alpha helix that is responsible for recruiting the PKA regulatory subunit (RIα, RIIα, RIβ, or RIIβ), individual AKAPs contain additional domains responsible for the recrutiment of additional signaling proteins (phosphodiesterases, phosphatases, cytoskeletal components, other kinase, etc.) or restricting AKAP to a specific subcellular location. AKAP5 (also known as P75, AKAP75, or AKAP79) is predominantly expressed in neuronal tissues and cells where it serves to localize type II PKA to post-synaptic densities. AKAP5 specifically binds to the regulatory subunit of PKAIIβ, anchoring the enzyme to the plasma membrane and sites of cytoskeletal/membrane junctions. The other binding domains of AKAP5 have been shown to interact with calmodulin, PP2B, and calcineurin suggesting that AKAP5 may act to coordinate the cAMP- and Ca2+-sensing pathways in various cell types.

Swiss-Prot

P24588

Applications

Blocking

Specificity

This peptide can be used with studies using BS1962 AKAP 5 (E7) pAb.

Purification & Purity

Synthetic peptide AKAP 5 (E7). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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