产品名称: AKAP 79 Rabbit Polyclonal Antibody

产品货号: APRab06725



产品概述 (Summary)

产品名称 (Production Name) AKAP 79 Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ICC/IF,ELISA种属反应性 (Reactivity)Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) AKAP5

AKAP5; AKAP79; A-kinase anchor protein 5; AKAP-5; A-kinase anchor protein

别名 (Alternative Names) 79 kDa; AKAP 79; H21; cAMP-dependent protein kinase regulatory subunit II

high affinity-binding protein

基因 ID (Gene ID) 9495.0

P24588.The antiserum was produced against synthesized peptide derived 蛋白ID (SwissProt ID)

from human AKAP5. AA range:1-50

产品应用 (Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

蛋白分子量 (Molecular Weight) 47kDa

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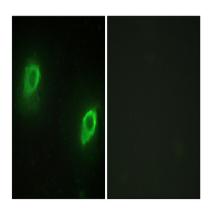


研究背景 (Background)

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 binds to the RII-beta regulatory subunit of PKA, and also to protein kinase C and the phosphatase calcineurin. It is predominantly expressed in cerebral cortex and may anchor the PKA protein at postsynaptic densities (PSD) and be involved in the regulation of postsynaptic events. It is also expressed in T lymphocytes and may function to inhibit interleukin-2 transcription by disrupting calcineurin-dependent dephosphorylation of NFAT. [provided by RefSeg, Jul 2008],domain:RII-alpha binding site, predicted to form an amphipathic helix, could participate in protein-protein interactions with a complementary surface on the R-subunit dimer.,function:May anchor the PKA protein to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors. Association with to 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., miscellaneous: The N-terminal region, which is highly basic, is required for interaction with calmodulin, similarity: Contains 1 AKAP domain, subcellular location: Associated with particulate fractions, subunit: Binding protein for dimer of the RII-beta regulatory subunit of cAMP-dependent protein kinase (PKA) and also for the protein kinase C (PKC) and the phosphatase calcineurin (PP2B). Each enzyme is inhibited when bound to the anchoring protein. Also binds the beta2-adrenergic receptor., tissue specificity: Predominantly in the cerebral cortex and the postsynaptic densities of the forebrain, and to a lesser extent in adrenal medulla, lung and anterior pituitary,

研究领域 (Research Area)

图片 (Image Data)



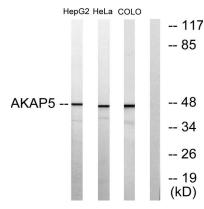
Immunofluorescence analysis of HeLa cells, using AKAP5 Antibody. The picture on the right is blocked with the synthesized peptide.

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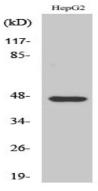
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Western blot analysis of lysates from HepG2, HeLa, and COLO205 cells, using AKAP5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using AKAP 79 Polyclonal Antibody diluted at 1: 1000

注意事项 (Note)

For research use only .