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PRKAR2A Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6823a

Specification

PRKAR2A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P13861

PRKAR2A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5576

Other Names
cAMP-dependent protein kinase type II-alpha regulatory subunit, PRKAR2A, PKR2, PRKAR2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6823a was selected from the N-term region of human PRKAR2A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRKAR2A Antibody (N-term) Blocking Peptide - Protein Information

Name PRKAR2A

Synonyms PKR2, PRKAR2

Function
Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. Type II regulatory chains mediate membrane association by binding to anchoring proteins, including the MAP2 kinase.

Cellular Location
Cytoplasm. Cell membrane. Note=Colocalizes with PJA2 in the cytoplasm and the cell membrane

Tissue Location
Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible

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PRKAR2A Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PRKAR2A Antibody (N-term) Blocking Peptide - Images

PRKAR2A Antibody (N-term) Blocking Peptide - Background

PRKAR2A is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).

PRKAR2A Antibody (N-term) Blocking Peptide - References

Olsen,J.V., et.al., Cell 127 (3), 635-648 (2006)