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PRKAR1A Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP6773c

Specification

PRKAR1A Antibody (Center) Blocking Peptide - Product Information

Primary Accession P10644

PRKAR1A Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5573

Other Names
cAMP-dependent protein kinase type I-alpha regulatory subunit, Tissue-specific extinguisher 1, TSE1, cAMP-dependent protein kinase type I-alpha regulatory subunit, N-terminally processed, PRKAR1A, PKR1, PRKAR1, TSE1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6773c was selected from the Center region of human PRKAR1A. 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.

PRKAR1A Antibody (Center) Blocking Peptide - Protein Information

Name PRKAR1A

Synonyms PKR1, PRKAR1, TSE1

Function
Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells.

Cellular Location
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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PRKAR1A Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PRKAR1A Antibody (Center) Blocking Peptide - Images

PRKAR1A Antibody (Center) Blocking Peptide - Background

The inactive form of PRKAR1A is composed of two regulatory chains and two catalytic chains. Activation of PRKAR1A by cAMP produces two active catalytic monomers and a regulatory dimer that binds four cAMP molecules. PRKAR1A also interacts with RFC2; the complex may be involved in cell survival.

PRKAR1A Antibody (Center) Blocking Peptide - References

Ragazzon,B., et.al., Cancer Res. 69 (18), 7278-7284 (2009)