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PRKRA Antibody (S18) Blocking Peptide

Synthetic peptide
Catalog # BP7744a

Specification

PRKRA Antibody (S18) Blocking Peptide - Product Information

Primary Accession O75569

PRKRA Antibody (S18) Blocking Peptide - Additional Information

Gene ID 8575

Other Names
Interferon-inducible double-stranded RNA-dependent protein kinase activator A, PKR-associated protein X, PKR-associating protein X, Protein activator of the interferon-induced protein kinase, Protein kinase, interferon-inducible double-stranded RNA-dependent activator, PRKRA, PACT, RAX

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7744a was selected from the S18 region of human PRKRA. 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.

PRKRA Antibody (S18) Blocking Peptide - Protein Information

Name PRKRA

Synonyms PACT, RAX

Function
Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EFI2-alpha and inhibition of translation and induction of apoptosis. Required for siRNA production by DICER1 and for subsequent siRNA-mediated post- transcriptional gene silencing. Does not seem to be required for processing of pre-miRNA to miRNA by DICER1. Promotes UBC9-p53/TP53 association and sumoylation and phosphorylation of p53/TP53 at 'Lys- 386' at 'Ser-392' respectively and enhances its activity in a EIF2AK2/PKR-dependent manner (By similarity).

Cellular Location
Cytoplasm, perinuclear region. Cytoplasm.

PRKRA Antibody (S18) Blocking Peptide - Protocols

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

- Blocking Peptides

PRKRA Antibody (S18) Blocking Peptide - Images

PRKRA Antibody (S18) Blocking Peptide - Background

Appears to have a pro-apoptotic function that may be suppressed in the presence of growth factor. Activates EIF2AK2 in absence of double stranded RNA (dsRNA).

PRKRA Antibody (S18) Blocking Peptide - References

Seibler,P., Lancet Neurol 7 (5), 380-381 (2008)Kok,K.H., J. Biol. Chem. 282 (24), 17649-17657 (2007)Patel,R.C., EMBO J. 17 (15), 4379-4390 (1998)