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Phospho-PRKRA(S246) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3593a

Product Information

Application	DB, E
Primary Accession	O75569
Other Accession	Q4V8C7, Q2HJ92
Reactivity	Human
Predicted	Bovine, Rat, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16261
Calculated MW	34404

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	This PRKRA Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S246 of human PRKRA.
Dilution	DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-PRKRA(S246) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRKRA (HGNC:9438)
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). May function as regulator of gastric epithelial differentiation (By similarity).
Cellular Location	Cytoplasm, perinuclear region. Cytoplasm.

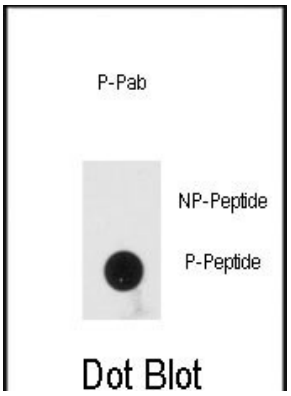
Background

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

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)

Images



Dot blot analysis of anti-Phospho-PRKRA-pS246 Antibody (Cat.#AP3593a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.