

PRKRA Antibody (S246)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7744b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75569
Other Accession	Q4V8C7 , Q2HJ92
Reactivity	Human
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16261
Calculated MW	34404
Antigen Region	225-252

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 peptide between 225-252 amino acids from human PRKRA.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	PRKRA Antibody (S246) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRKRA (HGNC:9438)
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Synonyms

PACT, RAX

Function

Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2-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.

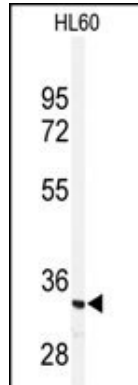
Background

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).

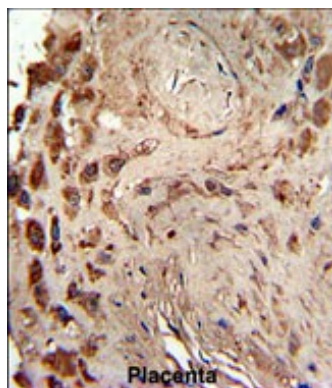
References

- 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

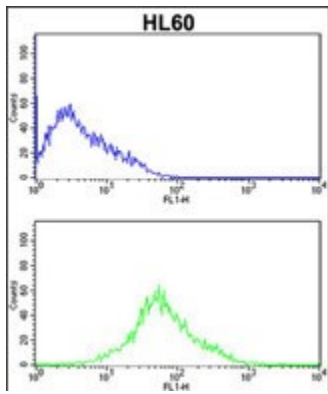


Western blot analysis of anti-PRKRA Antibody (S246)(Cat.#AP7744b) in HL60 cell line lysates (35ug/lane). PRKRA (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human placenta reacted with PRKRA Antibody (S246), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

PRKRA Antibody (S246) (Cat. #AP7744b) flow cytometric analysis of HL60 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the



analysis.

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