

**PRKRA Antibody (S246)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7744b****Specification**

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**PRKRA Antibody (S246) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O75569</a>
Other Accession	<a href="#">Q4V8C7</a> , <a href="#">Q2HJ92</a>
Reactivity	Human
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34404
Antigen Region	225-252

**PRKRA Antibody (S246) - 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**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

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.

**PRKRA Antibody (S246) - Protein Information**

**Name** PRKRA

**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).

**Cellular Location**

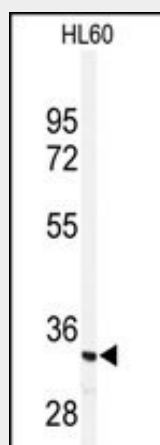
Cytoplasm, perinuclear region. Cytoplasm.

**PRKRA Antibody (S246) - Protocols**

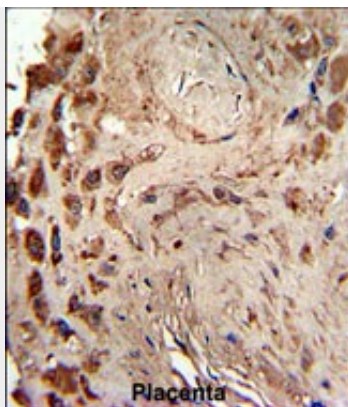
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

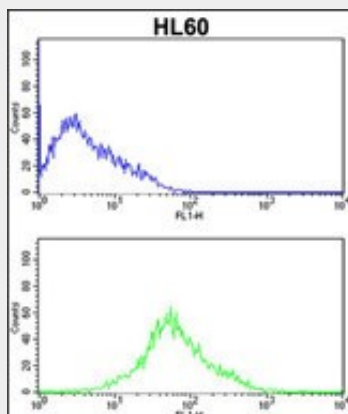
**PRKRA Antibody (S246) - Images**



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.

### **PRKRA Antibody (S246) - 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).

### **PRKRA Antibody (S246) - 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)