

For Research Use Only

# PACT Polyclonal antibody

Catalog Number: 10771-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 10771-1-AP	<b>GenBank Accession Number:</b> BC009470	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8575	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> protein kinase, interferon-inducible double stranded RNA dependent activator	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 34 kDa	
<b>Immunogen Catalog Number:</b> AG1214	<b>Observed MW:</b> 31-34 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IF, IHC, WB	<b>WB :</b> HeLa cells, MCF-7 cells, C2C12 cells, PC-12 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> mouse testis tissue,
<b>Cited Species:</b> human, rat, mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

PRKRA (PKR-associated protein X) is also named as PACT, RAX, HSD-14 and HSD14. PRKRA was significantly overexpressed in PC tissues and promoted the proliferation, migration, and chemoresistance of PC cells (PMID: 37484321). PRKRA 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. PRKRA has been shown to interact with DICER1. DICER1 and PRKRA expression in normal colon was limited to mucosal epithelium and showed similar cytoplasmic expression (PMID: 37484321).

## Notable Publications

Author	Pubmed ID	Journal	Application
Nishi R Sharma	29084250	PLoS Pathog	WB
Christopher R Neil	34613784	Mol Biol Cell	WB
Asli E Dogan	35598827	J Biol Chem	WB

## Storage

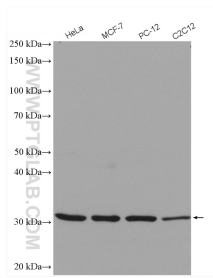
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

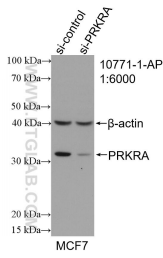
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

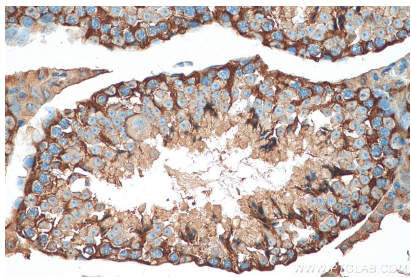
Selected Validation Data



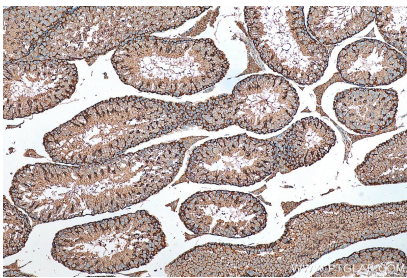
Various lysates were subjected to SDS PAGE followed by western blot with 10771-1-AP (PACT antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



WB result of PACT antibody (10771-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PACT transfected MCF-7 cells.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10771-1-AP (PACT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10771-1-AP (PACT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).