

For Research Use Only

PACT Polyclonal antibody

Catalog Number: 10771-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

10771-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1214

GenBank Accession Number:

BC009470

GeneID (NCBI):

8575

UNIPROT ID:

O75569

Full Name:

protein kinase, interferon-inducible double stranded RNA dependent activator

Calculated MW:

34 kDa

Observed MW:

31-34 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, ColP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: HeLa cells, MCF-7 cells, C2C12 cells, PC-12 cells

IHC: mouse testis tissue,

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- α 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

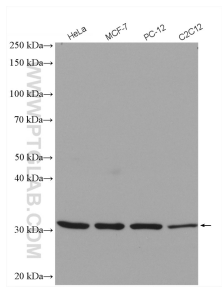
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

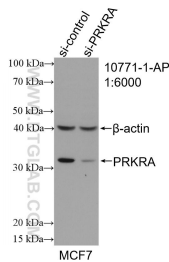
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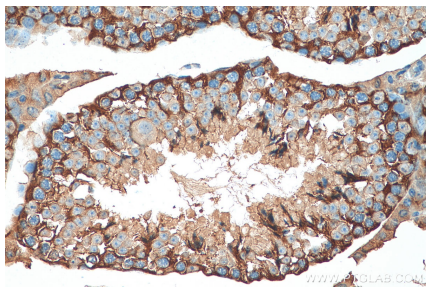
Selected Validation Data



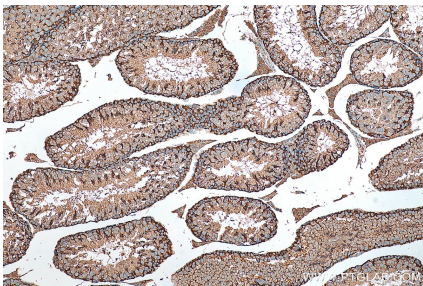
Various lysates were subjected to SDS PAGE followed by western blot with 10771-1-AP (PACT antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).