

For Research Use Only

# CDK5RAP3 Polyclonal antibody

Catalog Number: 11007-1-AP

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 11007-1-AP	<b>GenBank Accession Number:</b> BC009957	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 80279	<b>Recommended Dilutions:</b> WB 1:2000-1:12000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> CDK5 regulatory subunit associated protein 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 57 kDa	
<b>Immunogen Catalog Number:</b> AG1474	<b>Observed MW:</b> 65 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human

**Cited Species:**  
bovine, mouse

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

**Positive Controls:**

**WB:** A431 cells, HeLa cells, HEK-293 cells, HEK-293T cells, Jurkat cells

**IHC:** human stomach tissue, human pancreas tissue

**IF:** HepG2 cells, human liver tissue

## Background Information

Cyclin-dependent kinase 5 (CDK5) regulatory subunit associated protein 3 (CDK5RAP3, also named as C53 or LZAP) was initially identified as a binding protein of CDK5 activator p35. CDK5RAP3 is widely expressed in human tissues and broadly located in subcellular compartments. By interacting with other proteins, CDK5RAP3 participates in the regulation of multiple cellular processes including cell cycle, apoptosis, cell invasion, signaling transduction, autophagy, UFMylation and endoplasmic reticulum (ER) stress.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yangyang Shen	33182370	Int J Mol Sci	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

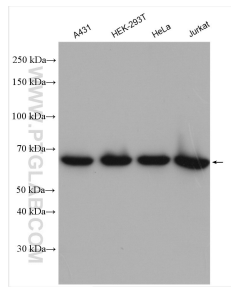
For technical support and original validation data for this product please contact:

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

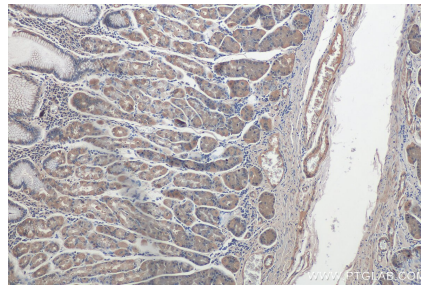
E: proteintech@ptglab.com  
W: ptglab.com

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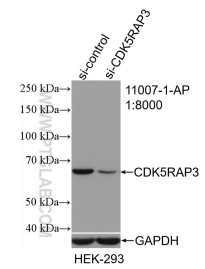
## Selected Validation Data



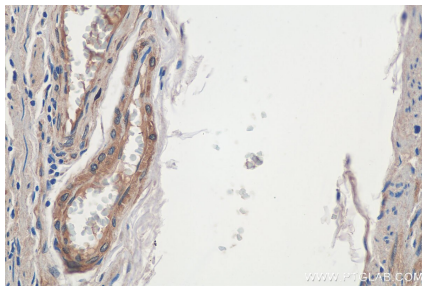
Various lysates were subjected to SDS PAGE followed by western blot with 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



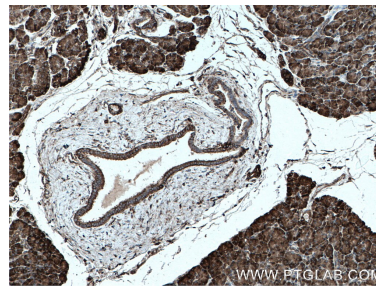
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:200 (under 10x lens).



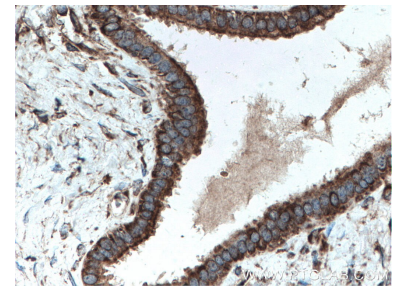
WB result of CDK5RAP3 antibody (11007-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK5RAP3 transfected HEK-293 cells.



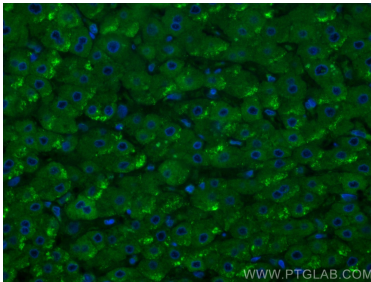
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:200 (under 40x lens).



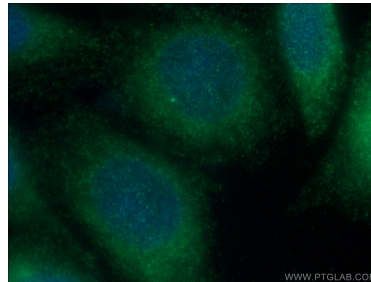
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



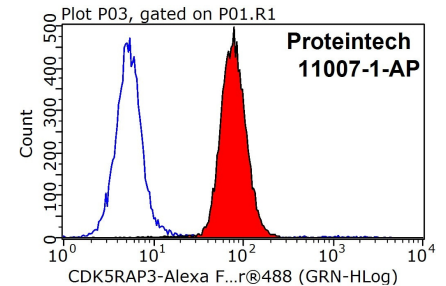
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using CDK5RAP3 antibody (11007-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11007-1-AP (CDK5RAP3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug CDK5RAP3 antibody (11007-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.