

For Research Use Only

# NUCKS1 Polyclonal antibody

Catalog Number: 12023-2-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

12023-2-AP

### Size:

1000  $\mu$ g/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2652

### GenBank Accession Number:

BC000805

### GeneID (NCBI):

64710

### UNIPROT ID:

Q9H1E3

### Full Name:

nuclear casein kinase and cyclin-dependent kinase substrate 1

### Calculated MW:

243 aa, 27 kDa

### Observed MW:

45 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0  $\mu$ g for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

WB, IF, IHC, ChIP

### Species Specificity:

human, rat

### Cited Species:

human, mouse, bovine

**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 : BxPC-3 cells, HEK-293 cells, MCF-7 cells, SW 1990 cells

IP : HEK-293 cells,

IHC : human gliomas tissue, rat pancreas tissue

## Background Information

Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1 (NUCKS1) is a nuclear protein that is highly conserved in vertebrates. The conserved regions of the protein contain several consensus phosphorylation sites for casein kinase II and cyclin-dependent kinases, two putative nuclear localization signals, and a basic DNA-binding domain. It is phosphorylated by CDK1 and casein kinase during mitosis of the cell cycle. Phosphorylated upon DNA damage, probably by ATM or ATR. Widely expressed, with highest levels in thyroid gland, prostate and uterus and in fetal liver, thymus and lung. Two isoforms of NUCKS1 exist due to alternative splicing events.

## Notable Publications

Author	Pubmed ID	Journal	Application
Erhu Zhao	32958058	J Exp Clin Cancer Res	WB
Samuel Hume	34845229	Nat Commun	ChIP
Xiaohan Yuan	30710349	J Cell Physiol	WB,IF

## 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

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

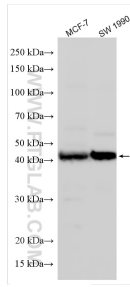
T: 4006900926

E: Proteintech-CN@ptglab.com

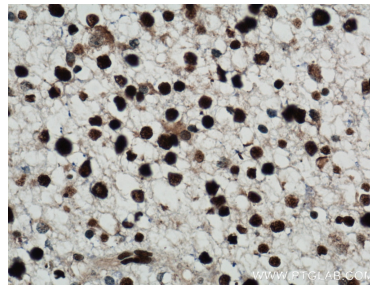
W: ptgcn.com

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

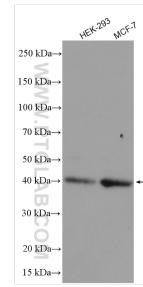
## Selected Validation Data



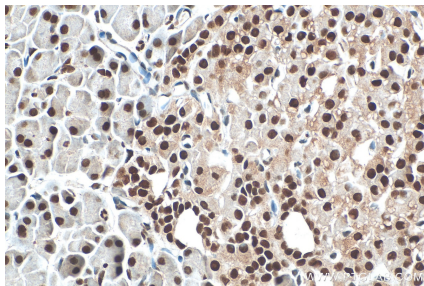
Various lysates were subjected to SDS PAGE followed by western blot with 12023-2-AP (NUCKS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



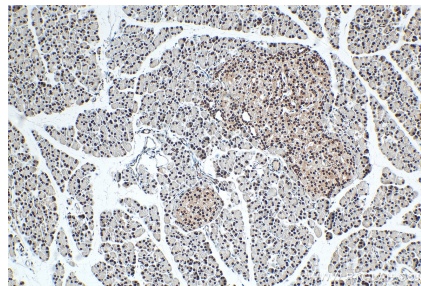
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12023-2-AP (NUCKS1 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



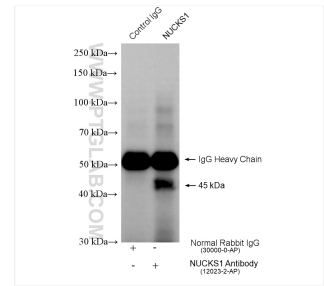
Various lysates were subjected to SDS PAGE followed by western blot with 12023-2-AP (NUCKS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat pancreas tissue slide using 12023-2-AP (NUCKS1 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 rat pancreas tissue slide using 12023-2-AP (NUCKS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NUCKS1 (IP:12023-2-AP, 4ug; Detection:12023-2-AP 1:600) with HEK-293 cells lysate 960 ug.