

For Research Use Only

NUCKS1 Polyclonal antibody

Catalog Number: 12023-2-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

12023-2-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 440 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP, 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

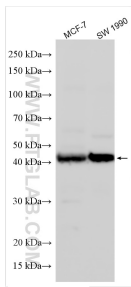
For technical support and original validation data for this product please contact:

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

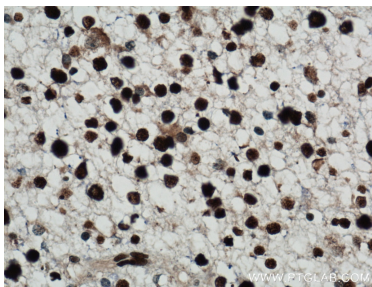
E: proteintech@ptglab.com
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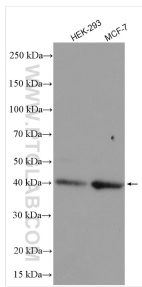
Selected Validation Data



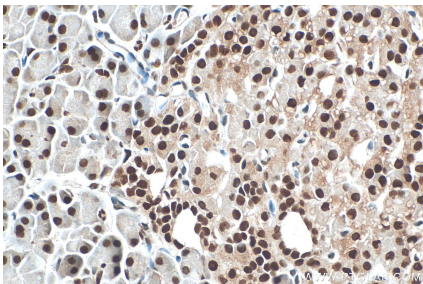
Various lysates were subjected to SDS PAGE followed by western blot with 12023-2-AP (NUCKS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



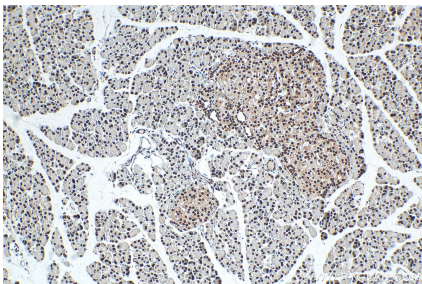
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12023-2-AP (NUCKS1 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



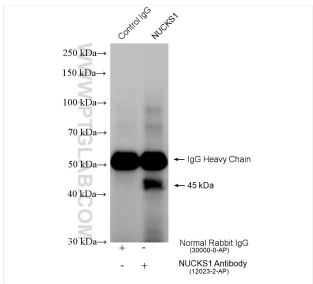
Various lysates were subjected to SDS PAGE followed by western blot with 12023-2-AP (NUCKS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.