

For Research Use Only

NUSAP1 Polyclonal antibody

Catalog Number:12024-1-AP

Featured Product

44 Publications



Basic Information

Catalog Number:

12024-1-AP

Size:

150ul , Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2654

GenBank Accession Number:

BC001308

GeneID (NCBI):

51203

UNIPROT ID:

Q9BX56

Full Name:

nucleolar and spindle associated protein 1

Calculated MW:

440 aa, 49 kDa

Observed MW:

47-52 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human

Cited Species:

human, mouse, rat

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 : HEK-293 cells, HeLa cells, Jurkat cells

IP : HeLa cells,

IHC : human prostate cancer tissue, human colon cancer tissue

IF/ICC : HeLa cells,

Background Information

NUSAP1, also named as ANKT, belongs to the NUSAP family. It is microtubule-associated protein with the capacity to bundle and stabilize microtubules. NUSAP1 may associate with chromosomes and promote the organization of mitotic spindle microtubules around them. NUSAP1 plays a role in connecting apoptosis with cell migration and it is a potentially involved in morphogenesis in vertebrates (PMID:21203972). NUSAP1 is an immunogenic antigen in 65% of patients with AML following allogeneic HCT and suggests a tumor antigen role (PMID:20053754). NUSAP1 protein level is tightly regulated by the APC/C ubiquitin ligase complex and NuSAP induces mitotic arrest dependent of its microtubule affinity (PMID:17618083). NUSAP1 is overexpressed in pituitary adenomas.

Notable Publications

Author	Pubmed ID	Journal	Application
Li Chen	26485712	PLoS One	IHC
Sofie De Munter	33054506	Cell Cycle	WB
Esmeralda Castelblanco	27796194	Thyroid	

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

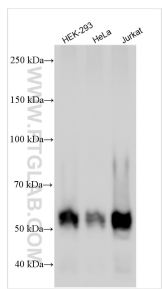
For technical support and original validation data for this product please contact:

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

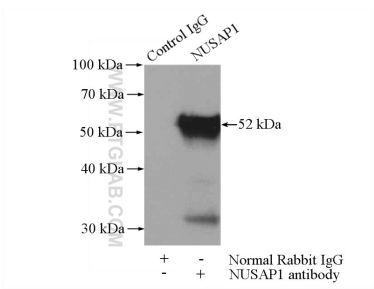
E: proteintech@ptglab.com
W: ptglab.com

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

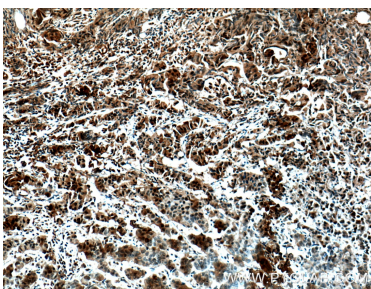
Selected Validation Data



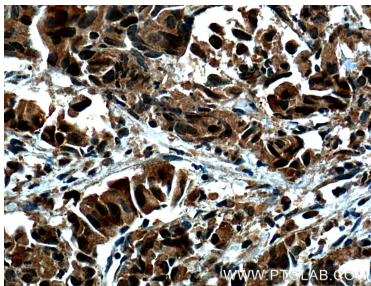
Various lysates were subjected to SDS PAGE followed by western blot with 12024-1-AP (NUSAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



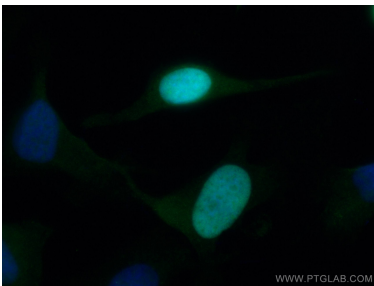
IP result of anti-NUSAP1 (IP:12024-1-AP, 4ug; Detection:12024-1-AP 1:500) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12024-1-AP (NUSAP1 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 prostate cancer tissue slide using 12024-1-AP (NUSAP1 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 HeLa cells using NUSAP1 antibody (12024-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).