

For Research Use Only

NUFIP1 Polyclonal antibody

Catalog Number: 12515-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

12515-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3197

GenBank Accession Number:

BC017745

GeneID (NCBI):

26747

UNIPROT ID:

Q9UHK0

Full Name:

nuclear fragile X mental retardation protein interacting protein 1

Calculated MW:

56 kDa

Observed MW:

70-75 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 1:300-1:1200

IF/ICC 1:300-1:1200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

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 : HeLa cells, A375 cells

IP : HeLa cells,

IHC : human ovary tumor tissue,

IF/ICC : HeLa cells,

Background Information

Fragile X syndrome, the most common cause of inherited mental retardation, is caused by the absence of FMRP (Fragile X Mental Retardation Protein). FMRP is an RNA binding protein reported to be involved in translational control, notably at postsynaptic sites of protein synthesis as a part of a multiprotein/mRNA complex[PMID:12941608]. NUFIP1 is one of the several FMRP-interacting proteins. NUFIP can act as a pol II-specific basal transcriptional activator in vitro and when ectopically overexpressed in vivo. NUFIP can directly activate promoters by enhancing the ATP-dependent release of hyperphosphorylated form of pol II from open transcription complexes[PMID:15107825].

Notable Publications

Author	Pubmed ID	Journal	Application
Myoung Sup Shim	31476975	Autophagy	WB, IF
Pedro Fuentes	34818049	Sci Adv	WB
Jonathan Bizarro	25404746	J Cell Biol	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

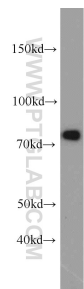
For technical support and original validation data for this product please contact:

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

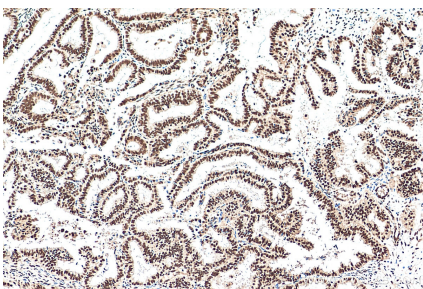
E: proteintech@ptglab.com
W: ptglab.com

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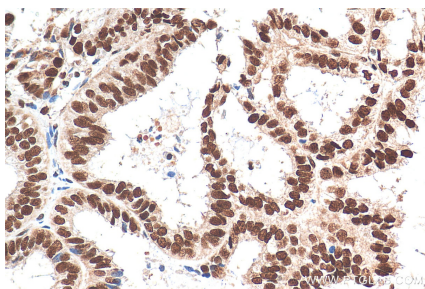
Selected Validation Data



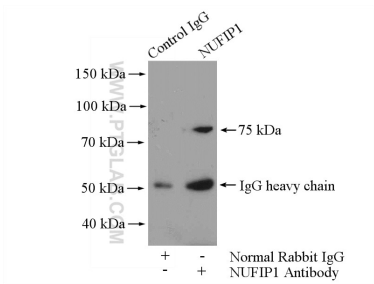
HeLa cells were subjected to SDS PAGE followed by western blot with 12515-1-AP (NUFIP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



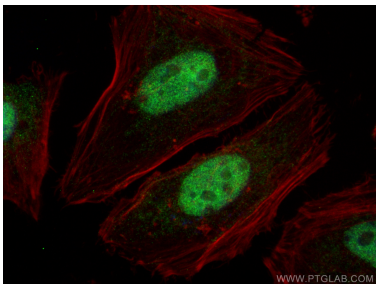
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12515-1-AP (NUFIP1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12515-1-AP (NUFIP1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NUFIP1 (IP:12515-1-AP, 4ug; Detection:12515-1-AP 1:800) with HeLa cells lysate 1200ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NUFIP1 antibody (12515-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).