

For Research Use Only

NUFIP1 Polyclonal antibody

Catalog Number: 12515-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

12515-1-AP

Size:

800 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB: HeLa cells, A375 cells

IP: HeLa cells,

IHC: human ovary tumor tissue,

IF: HeLa cells,

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

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

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

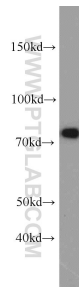
T: 4006900926

E: Proteintech-CN@ptglab.com

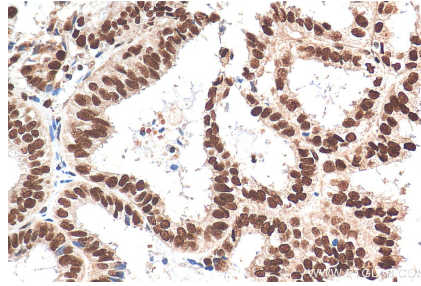
W: ptgcn.com

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

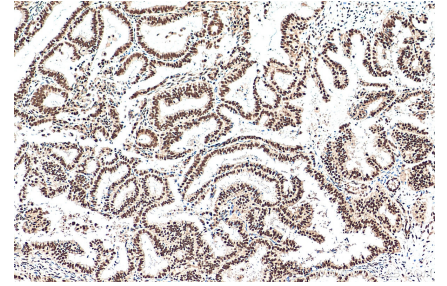
Selected Validation Data



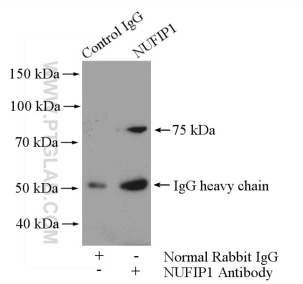
HeLa cells were subjected to SDS PAGE followed by western blot with 12515-1-AP (NUFIP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



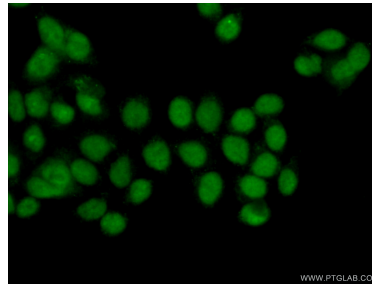
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12515-1-AP (NUFIP1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12515-1-AP (NUFIP1 antibody) at dilution of 1:600 (under 10x 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 12515-1-AP (NUFIP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).