

For Research Use Only

# NXF1 Polyclonal antibody

Catalog Number: 10328-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

10328-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0413

### GenBank Accession Number:

BC004904

### GeneID (NCBI):

10482

### UNIPROT ID:

Q9UBU9

### Full Name:

nuclear RNA export factor 1

### Calculated MW:

70 kDa

### Observed MW:

66-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP, ColP

### Species Specificity:

human

### Cited Species:

human, mouse, monkey

### Positive Controls:

WB : HeLa cells, HEK-293T cells, K-562 cells, HepG2 cells

IP : HeLa cells,

IF/ICC : HepG2 cells,

## Background Information

Nuclear RNA export factor 1 (NXF1, synonyms: TAP, MEX67) is one member of a family of nuclear RNA export factors. Common domain features of this family are a noncanonical RNP-type RNA-binding domain (RBD), 4 leucine-rich repeats (LRRs), a nuclear transport factor 2 (NTF2)-like domain that allows heterodimerization with NTF2-related export protein-1 (NXT1), and a ubiquitin-associated domain that mediates interactions with nucleoporins. The LRRs and NTF2-like domains are required for export activity. This protein shuttles between the nucleus and the cytoplasm and binds in vivo to poly(A)<sup>+</sup> RNA. It is the vertebrate homologue of the yeast protein Mex67p. NXF1 overcomes the mRNA export block caused by the presence of saturating amounts of CTE (constitutive transport element) RNA of type D retroviruses. There are some phosphorylation modification sites center on the N-terminal of NXF1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ke Wang	30194269	J Cell Biol	
Miao Chen	34793452	PLoS Genet	WB
Norihiro Okada	34082065	Gene	WB

## 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

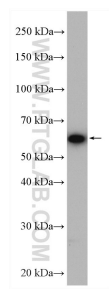
For technical support and original validation data for this product please contact:

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

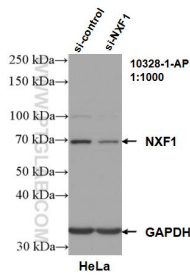
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

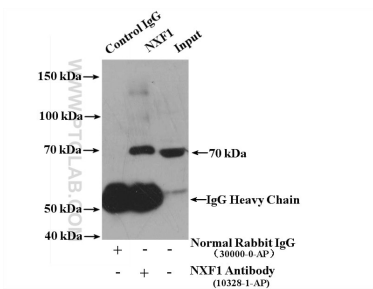
Selected Validation Data



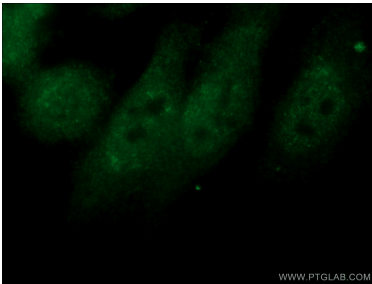
HeLa cells were subjected to SDS PAGE followed by western blot with 10328-1-AP (NXF1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



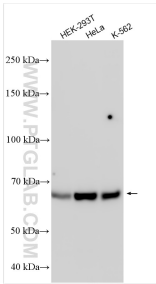
WB result of NXF1 antibody (10328-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NXF1 transfected HeLa cells.



IP result of anti-NXF1 (IP:10328-1-AP, 4ug; Detection:10328-1-AP 1:500) with HeLa cells lysate 3000 ug.



Immunofluorescent analysis of HepG2 cells using 10328-1-AP (NXF1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 10328-1-AP (NXF1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.