

For Research Use Only

# RNF8 Polyclonal antibody

Catalog Number: 14112-1-AP

Featured Product

22 Publications



## Basic Information

### Catalog Number:

14112-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5292

### GenBank Accession Number:

BC007517

### GeneID (NCBI):

9025

### UNIPROT ID:

O76064

### Full Name:

ring finger protein 8

### Calculated MW:

485 aa, 56 kDa

### Observed MW:

56-60 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

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

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

IP: HeLa cells,

IHC: human testis tissue,

IF/ICC: 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

RNF8, also named as KIAA0646 or E3 ubiquitin-protein ligase RNF8, is a 485 amino acid protein, which contains one RING-type zinc finger and one FHA domain. RNF8 localizes in the nucleus and belongs to the RNF8 family. E2-E3 ubiquitin ligase complex is composed of the RNF8 homodimer and a E2 heterodimer of UBE2N and UBE2V2. E3 ubiquitin-protein ligase that plays a key role in DNA damage signaling via 2 distinct roles: by mediating the 'Lys-63'-linked ubiquitination of histones H2A and H2AX and promoting the recruitment of DNA repair proteins at double-strand breaks (DSBs) sites, and by catalyzing 'Lys-48'-linked ubiquitination to remove target proteins from DNA damage sites.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dong-Mei Hai	34588981	Front Pharmacol	WB
Jingyuan Sun	33087136	J Exp Clin Cancer Res	WB, IF
Abhay Narayan Singh	31613024	EMBO J	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

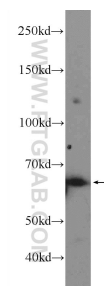
For technical support and original validation data for this product please contact:

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

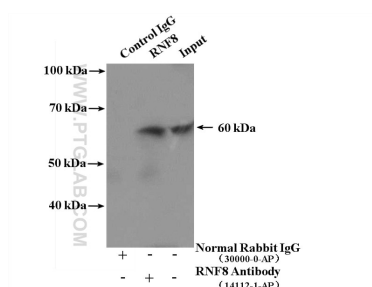
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

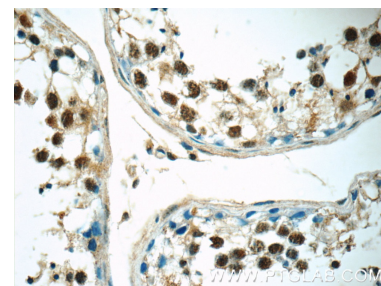
## Selected Validation Data



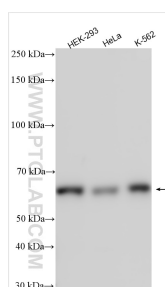
HeLa cells were subjected to SDS PAGE followed by western blot with 14112-1-AP (RNF8 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



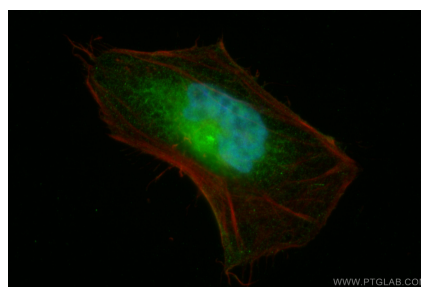
IP result of anti-RNF8 (IP:14112-1-AP, 4ug; Detection:14112-1-AP 1:600) with HeLa cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 14112-1-AP (RNF8 Antibody) at dilution of 1:50 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 14112-1-AP (RNF8 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RNF8 antibody (14112-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).