

For Research Use Only

# RNF8 Polyclonal antibody

Catalog Number: 14112-1-AP

Featured Product

19 Publications



## Basic Information

<b>Catalog Number:</b> 14112-1-AP	<b>GenBank Accession Number:</b> BC007517	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9025	<b>Recommended Dilutions:</b> 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 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> ring finger protein 8	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 485 aa, 56 kDa	
<b>Immunogen Catalog Number:</b> AG5292	<b>Observed MW:</b> 56-60 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HEK-293 cells, K-562 cells IP : HeLa cells, IHC : human testis tissue, IF : HeLa cells,
<b>Cited Applications:</b> CoIP, IF, IHC, IP, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

**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

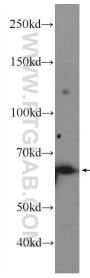
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

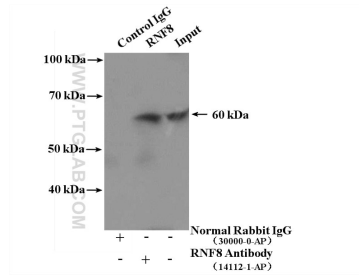
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

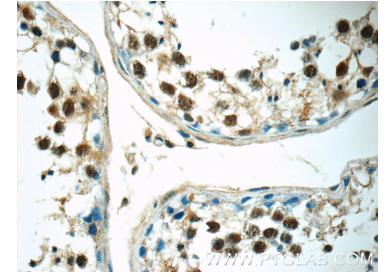
## Selected Validation Data



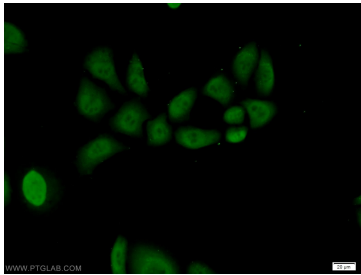
HeLa cells were subjected to SDS PAGE followed by western blot with 14112-1-AP (RNF8 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



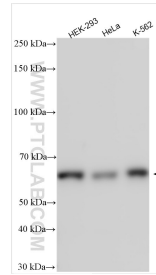
IP Result of anti-RNF8 (IP:14112-1-AP, 4 $\mu$ g; Detection:14112-1-AP 1:600) with HeLa cells lysate 3200 $\mu$ g.



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



Immunofluorescent analysis of HeLa cells using 14112-1-AP (RNF8 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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.