

## RNF4 Polyclonal antibody

Catalog Number: 17810-1-AP

Featured Product

8 Publications

## Basic Information

## Catalog Number:

17810-1-AP

## Size:

800 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG12115

## GenBank Accession Number:

BC031935

## GeneID (NCBI):

6047

## UNIPROT ID:

P78317

## Full Name:

ring finger protein 4

## Calculated MW:

190 aa, 21 kDa

## Observed MW:

30 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

## Applications

## Tested Applications:

WB, IP, ELISA

## Cited Applications:

WB, ColP

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse

## Positive Controls:

WB : PC-3 cells,

IP : PC-3 cells,

## Background Information

RNF4 is a E3 ubiquitin-protein ligase that binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6', 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation. It regulates the degradation of several proteins including PML and PEA3 [PMID:18408734]. It also participates in chromosome alignment and spindle assembly, and regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. In addition, RNF4 can regulate the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1 [PMID:20026589]. Alternatively, it may also bind DNA/nucleosomes and have a more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation [PMID:11319220]. RNF4 exist as two isoforms. Isoform one is a 30 kDa protein and isoform two is a about 15 kDa protein. RNF4 binds polysumoylated chains and the molecular weight of RNF4 migrate in the experiment to 35 kDa, 47 kDa, 69 kDa as ubiquitinated protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tao Zhang	36050397	Nat Commun	WB
Tatsuya Shimada	34071450	Int J Mol Sci	WB
Carl C Ward	31059647	ACS Chem 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

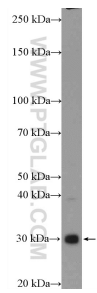
For technical support and original validation data for this product please contact:

T: 4006900926

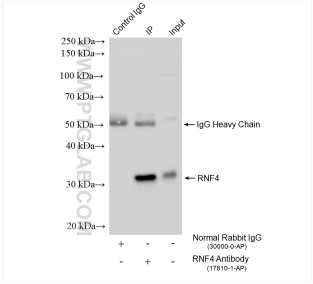
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 17810-1-AP (RNF4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-RNF4 (IP:17810-1-AP, 4ug; Detection:17810-1-AP 1:1500) with PC-3 cells lysate 1800 ug.