

For Research Use Only

# RNF2 Recombinant antibody

Catalog Number: 84793-5-RR

Featured Product



## Basic Information

Catalog Number:

84793-5-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8900

GenBank Accession Number:

BC012583

GeneID (NCBI):

6045

UNIPROT ID:

Q99496

Full Name:

ring finger protein 2

Calculated MW:

336 aa, 38 kDa

Observed MW:

38 kDa

Purification Method:

Protein A purification

CloneNo.:

242181G7

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:250-1:1000

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : Jurkat cells, HEK-293 cells, K-562 cells, HeLa cells, RAW 264.7 cells, NIH/3T3 cells

IF/ICC : U2OS cells,

## Background Information

RNF2 (also known as ding, Ring1B or Ring2) is a member of the Ring finger protein family, which functions as E3 ubiquitin ligase for monoubiquitination of histone H2A at lysine 119 (H2AK119ub). Many studies have demonstrated that overexpressed RNF2 was involved in the pathological progression of multiple cancers and has an impact on their clinical features. For instance, the upregulated expression level of RNF2 is positively correlated with the occurrence and progression of hepatocellular carcinoma, melanoma, prostate cancer, breast cancer, pancreatic cancer, gastric cancer, and bladder urothelial carcinoma, as well as with the radioresistance of lung cancer and chemoresistance of ovarian cancer (PMID: 33400276). The molecular weight of RNF2 is 38 kDa.

## 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:

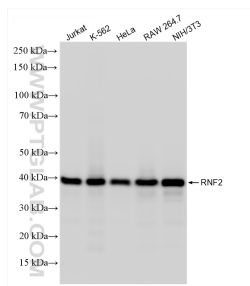
T: 4006900926

E: Proteintech-CN@ptglab.com

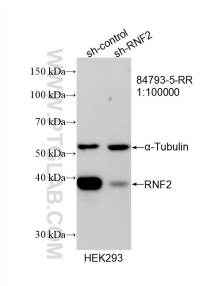
W: ptgcn.com

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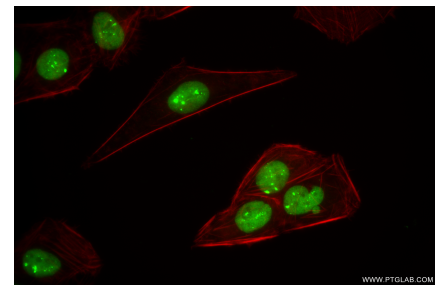
## Selected Validation Data



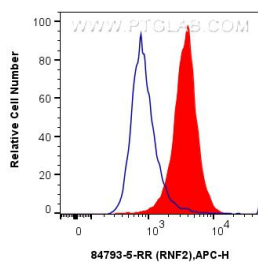
Various lysates were subjected to SDS PAGE followed by western blot with 84793-5-RR (RNF2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



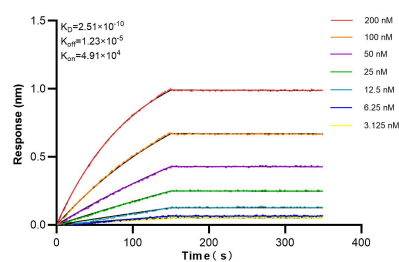
WB result of RNF2 antibody (84793-5-RR; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RNF2 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using RNF2 antibody (84793-5-RR, Clone: 242181G7) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g RNF2 Recombinant antibody (84793-5-RR, Clone:242181G7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 84793-5-RR against Human RNF2 were performed. The affinity constant is  $0.251 \text{ nM}$ .