

RNF40 Recombinant antibody

Catalog Number: 84058-5-RR

Basic Information

Catalog Number:

84058-5-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8047

GenBank Accession Number:

BC006133

GeneID (NCBI):

9810

UNIPROT ID:

O75150

Full Name:

ring finger protein 40

Calculated MW:

114 kDa

Observed MW:

135 kDa

Purification Method:

Protein A purification

CloneNo.:

241214A1

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, A375 cells

IF/ICC : HeLa cells,

Background Information

The DNA damage response (DDR) is emerging as a vast signaling network that temporarily modulates numerous aspects of cellular metabolism in the face of DNA lesions, especially critical ones such as the double-strand break (DSB). The DDR involves extensive dynamics of protein post-translational modifications, most notably phosphorylation and ubiquitylation. A recently identified novel component of the DDR pathway - histone H2B monoubiquitylation - exemplifies this principle. Monoubiquitination of histone H2B is a dynamic post-translational histone modification associated with transcriptional elongation and the DNA damage response [PMID:22021426]. In mammalian cells, H2B monoubiquitylation is driven primarily by an E3 ubiquitin ligase composed of the two RING finger proteins RNF20 and RNF40 [PMID:22031019,21827756].

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:

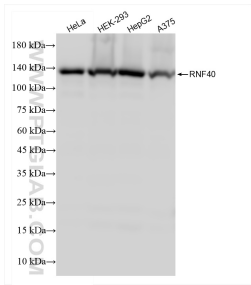
T: 4006900926

E: Proteintech-CN@ptglab.com

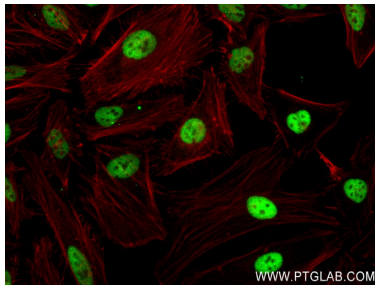
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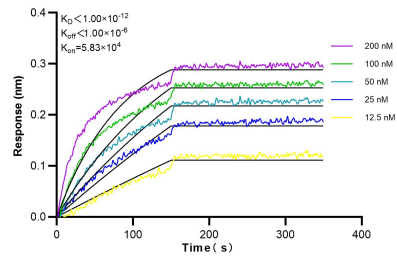
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84058-5-RR (RNF40 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RNF40 antibody (84058-5-RR, Clone: 241214A1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84058-5-RR against Human RNF40 were performed. The affinity constant is below 1 pM.