

For Research Use Only

# RNF40 Recombinant antibody, PBS Only

Catalog Number: 84058-5-PBS



## Basic Information

<b>Catalog Number:</b> 84058-5-PBS	<b>GenBank Accession Number:</b> BC006133	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9810	<b>CloneNo.:</b> 241214A1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75150	
<b>Isotype:</b> IgG	<b>Full Name:</b> ring finger protein 40	
<b>Immunogen Catalog Number:</b> AG8047	<b>Calculated MW:</b> 114 kDa	
	<b>Observed MW:</b> 135 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## 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 -80°C.

**Storage Buffer:**  
PBS Only

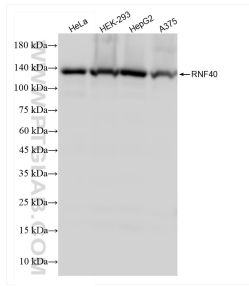
For technical support and original validation data for this product please contact:

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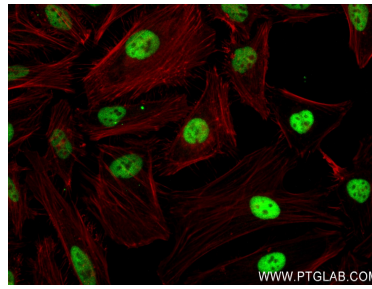
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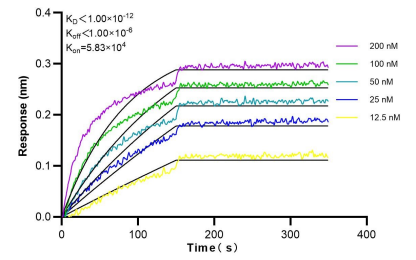
## Selected Validation Data



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. This data was developed using the same antibody clone with 84058-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84058-5-PBS in a different storage buffer formulation.



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