

For Research Use Only

# RNF40 Polyclonal antibody

Catalog Number: 15621-1-AP



## Basic Information

<b>Catalog Number:</b> 15621-1-AP	<b>GenBank Accession Number:</b> BC006133	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 700 µg/ml	<b>GeneID (NCBI):</b> 9810	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IF 1:50-1:500
<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> 114 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB:</b> human brain tissue, mouse liver tissue, mouse lung tissue, mouse spleen tissue
	<b>IF:</b> 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:

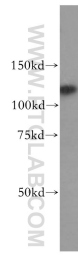
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

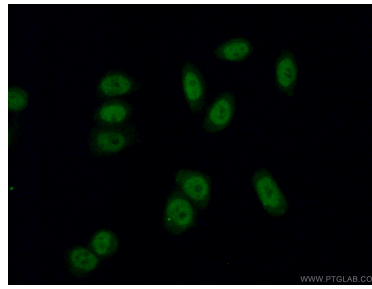
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 15621-1-AP (RNF40 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 15621-1-AP (RNF40 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).