

For Research Use Only

# Coilin Recombinant monoclonal antibody

Catalog Number: 87171-1-RR



## Basic Information

<b>Catalog Number:</b> 87171-1-RR	<b>GenBank Accession Number:</b> BC010385	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8161	<b>CloneNo.:</b> 252327B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P38432	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> coilin	
<b>Immunogen Catalog Number:</b> AG1416	<b>Calculated MW:</b> 576 aa, 63 kDa	
	<b>Observed MW:</b> 75 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HeLa cells, HEK-293 cells, NIH/3T3 cells, MCF-7 cells, K-562 cells, C6 cells
	<b>IF/ICC :</b> HepG2 cells,

## Background Information

The nuclear coiled body (CBs) and nuclear structures known as gems contain high concentrations of the survival motor neuron (SMN) protein complex. CBs and gems often colocalize, and communication between them is mediated by COIL. COIL is a component of the CBS which are involved in the function or assembly/disassembly of nucleoplasmic snRNPs. During mitosis, CBs disassemble, coinciding with a mitotic-specific phosphorylation of p80 coilin, and symmetrical dimethylation of the COIL RG box motif is a molecular switch that determines whether the SMN complex forms gems or becomes incorporated into CBs.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

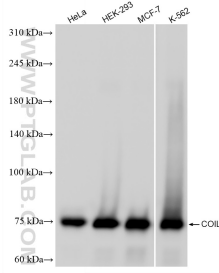
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

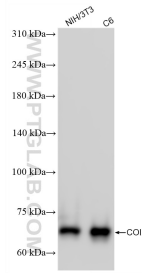
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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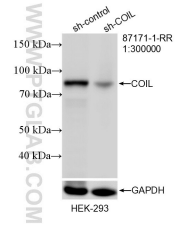
## Selected Validation Data



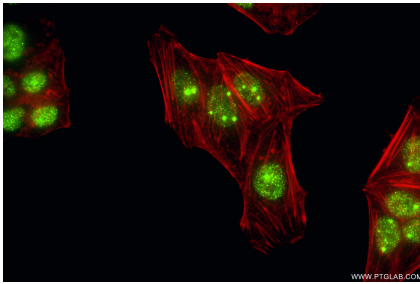
Various lysates were subjected to SDS PAGE followed by western blot with 87171-1-RR (COIL antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



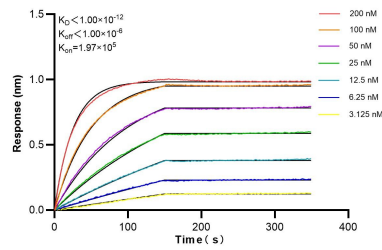
Various lysates were subjected to SDS PAGE followed by western blot with 87171-1-RR (COIL antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



WB result of Coilin antibody (87171-1-RR; 1:300000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Coilin transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COIL antibody (87171-1-RR, Clone: 252327B11) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 87171-1-RR against Human Coilin were performed. The affinity constant is below 1 pM.