

For Research Use Only

# RAD51 Polyclonal antibody

Catalog Number: 14961-1-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

14961-1-AP

### Size:

150UL, Concentration: 227 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6823

### GenBank Accession Number:

BC001459

### GeneID (NCBI):

5888

### Full Name:

RAD51 homolog (RecA homolog, E. coli) (*S. cerevisiae*)

### Calculated MW:

37 kDa

### Observed MW:

37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: HeLa cells, mouse testis tissue

IP: mouse testis tissue,

IHC: human testis tissue,

## Background Information

RAD51 plays a critical role in the maintenance of genomic integrity by functioning in the repair of DNA double-strand breaks. It mediates homologous pairing and strand exchange in recombinatory structures known as RAD51 foci in the nucleus. It also can bind to single and double stranded DNA and exhibits DNA-dependent ATPase activity. In addition, it has a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51C and XRCC3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin-Ping Yu	29104487	Int J Med Sci	WB
Jia-Qian Ju	32914523	Cell Prolif	WB
Liang Song	33087072	BMC Cancer	IF

## 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

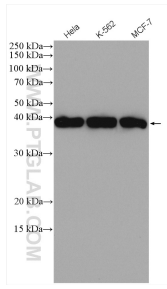
For technical support and original validation data for this product please contact:

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

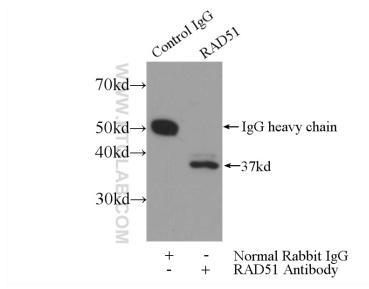
E: proteintech@ptglab.com  
W: ptglab.com

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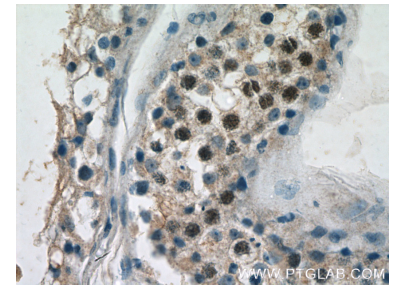
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14961-1-AP (RAD51 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-RAD51 (IP:14961-1-AP, 3ug; Detection:14961-1-AP 1:1000) with mouse testis tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 14961-1-AP (RAD51 Antibody) at dilution of 1:200 (under 40x lens).