

For Research Use Only

# RAD51 Polyclonal antibody

Catalog Number: 14961-1-AP

Featured Product

91 Publications



## Basic Information

Catalog Number:

14961-1-AP

Concentration:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6823

GenBank Accession Number:

BC001459

GeneID (NCBI):

5888

UNIPROT ID:

Q06609

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

IHC: 1:1000-1:4000

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, CoIP, ChIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, pig

**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, NIH/3T3 cells, mouse testis tissue, K-562 cells, MCF-7 cells

IHC : mouse thymus 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 Wen	36249018	Front Oncol	WB
Xin-Ping Yu	29104487	Int J Med Sci	WB
Judit Jimenez-Sainz	36098506	Elife	WB

## 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

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

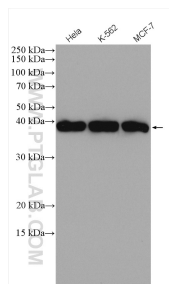
T: 4006900926

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

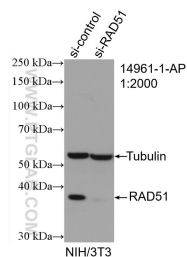
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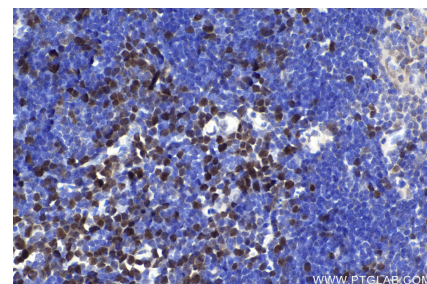
## Selected Validation Data



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.



WB result of RAD51 antibody (14961-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RAD51 transfected NIH/3T3 cells.



Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using 14961-1-AP (RAD51 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).