

For Research Use Only

RAD51 Recombinant monoclonal antibody

Catalog Number: 87990-1-RR



Basic Information

Catalog Number:

87990-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

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:

Protein A purification

CloneNo.:

260095G11

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, 4T1 cells, NIH/3T3 cells, HSC-T6 cells, K-562 cells, MCF-7 cells, Jurkat cells

IP : HeLa cells,

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.

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

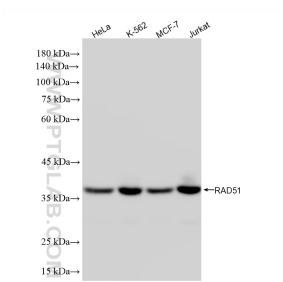
For technical support and original validation data for this product please contact:

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

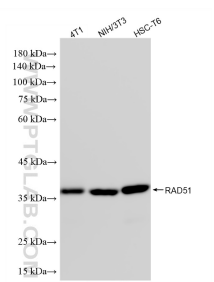
E: proteintech@ptglab.com
W: ptglab.com

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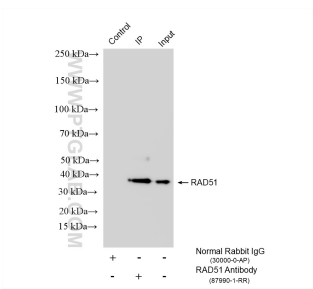
Selected Validation Data



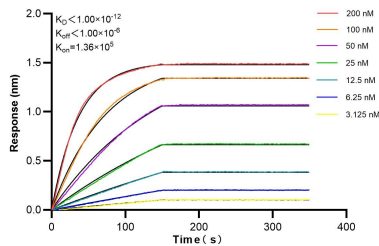
Various lysates were subjected to SDS PAGE followed by western blot with 87990-1-RR (RAD51 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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IP result of anti-RAD51 (IP:87990-1-RR, 4ug; Detection:87990-1-RR 1:3000) with HeLa cells lysate 1000 ug.



Biolayer interferometry (BLI) kinetic assays of 87990-1-RR against Human RAD51 were performed. The affinity constant is below 1 pM.