

For Research Use Only

RAD51 Monoclonal antibody

Catalog Number: 67024-1-Ig

Featured Product

6 Publications



Basic Information

Catalog Number:

67024-1-Ig

Size:

150ul, Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7410

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.:

4A12B8

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:1000-1:4000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

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 : Jurkat cells, 4T1 cells, NIH/3T3 cells, K-562 cells, HSC-T6 cells

IHC : mouse 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
Inken Flörkemeier	36142413	Int J Mol Sci	WB, IF
Ruijie Qian	35477389	J Nanobiotechnology	WB
Yuchen Wei	39865088	Cell Death Dis	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

*** 20ul sizes contain 0.1% BSA

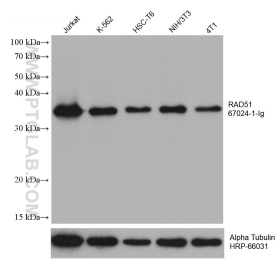
For technical support and original validation data for this product please contact:

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

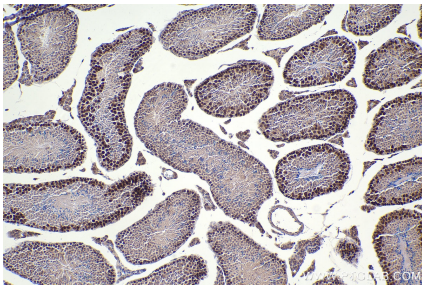
E: proteintech@ptglab.com
W: ptglab.com

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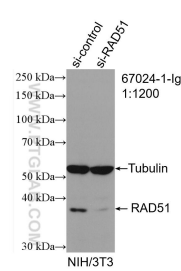
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67024-1-Ig (RAD51 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67024-1-Ig (RAD51 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of RAD51 antibody (67024-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-RAD51 transfected NIH/3T3 cells.