For Research Use Only

RAD51 Polyclonal antibody

Catalog Number:14961-1-AP Featured Product 63 Publications

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Basic Information

Catalog Number:
14961-1-AP

Size:
150ul , Concentration: 700 µg/ml by Nanodrop and 400 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

Applications

Tested Applications:
WB, ELISA

Cited Applications:
ChIP, CoIP, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse, pig

Positive Controls:

WB : HeLa cells, NIH/3T3 cells, mouse testis tissue, K-562 cells, MCF-7 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 RAD51foci 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

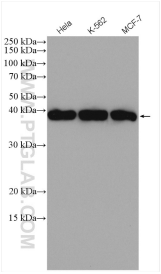
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

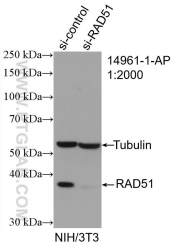
*** 20ul sizes contain 0.1% BSA

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

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.