RAD51
Polyclonal ANTIBODY
Catalog Number: 14961-1-AP

Basic Information

Catalog Number: 14961-1-AP
Size: 34 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG6823

GenBank Accession Number: BC010450
GeneID (NCBI): 5888

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 μg for IP and 1:500-1:2000 for WB
IHC 1:50-1:2000

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

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

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<th>Author</th>
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<tr>
<td>Xin-Ping Yu</td>
<td>29104487</td>
<td>Int J Med Sci</td>
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<td>Zhiwei Zhang</td>
<td>30551406</td>
<td>Biomed Pharmacother</td>
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<td>You Wang</td>
<td>28638454</td>
<td>J Cancer</td>
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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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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 1:250 (under 40x lens).