RA51 is 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 XRC3.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xin-Ping Yu</td>
<td>29104487</td>
<td>Int J Med Sci</td>
<td>WB</td>
<td>WB</td>
</tr>
<tr>
<td>Zhiwei Zhang</td>
<td>3001406</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
<td>WB</td>
</tr>
<tr>
<td>You Wang</td>
<td>28639454</td>
<td>J Cancer</td>
<td>WB</td>
<td>WB</td>
</tr>
</tbody>
</table>

**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:**

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

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**
Selected Validation Data

mouse testis tissue 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.

Immunohistochemistry of paraffin-embedded human testis tissue slide using 14961-1-AP (RAD51 Antibody) at dilution of 1:200 (under 40x lens).