

**bs-11230R****[ Primary Antibody ]****RAD50 Rabbit pAb****BioSS**  
**ANTIBODIES**

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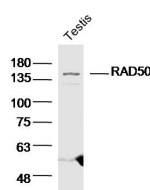
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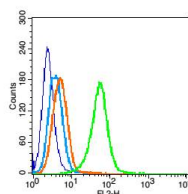
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 10111 <b>Target:</b> RAD50 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human RAD50: 817-872/1312. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> The protein encoded by this gene is highly similar to <i>Saccharomyces cerevisiae</i> Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Mutations in this gene are the cause of Nijmegen breakage syndrome-like disorder.	<b>Isotype:</b> IgG <b>SWISS:</b> Q92878	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>Flow-Cyt</b> (0.2µg/Test) <b>Reactivity:</b> Human, Mouse (predicted: Rat, Rabbit, Sheep, Cow, Horse) <b>Predicted MW.:</b> 154 kDa <b>Subcellular Location:</b> Nucleus
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**— VALIDATION IMAGES —**

Sample: Testis (Mouse) Lysate at 40 ug Primary:  
Anti-RAD50(bs-11230R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 154kD  
Observed band size: 154kD



Blank control: 293T cells(fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice).  
Primary Antibody: Rabbit Anti-RAD50 antibody(bs-11230R), Dilution: 0.2µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions ); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

**— SELECTED CITATIONS —**

- **[IF=5.572]** Yue Zhang. et al. Dietary selenium excess affected spermatogenesis via DNA damage and telomere-related cell senescence and apoptosis in mice. FOOD CHEM TOXICOL. 2023 Jan;171:113556 WB ;Mouse. 36502996