

bs-10145R**[Primary Antibody]****Rad51 Rabbit pAb****BioSS**
ANTIBODIES

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DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5888**SWISS:** Q06609**Target:** Rad51**Immunogen:** KLH conjugated synthetic peptide derived from human Rad51: 65-170/339.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 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.

Background: The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and *Saccharomyces cerevisiae* Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. Transcript variants utilizing alternative polyA signals exist.

Applications: IHC-P (1:100-500)

IHC-F (1:100-500)

IF (1:100-500)

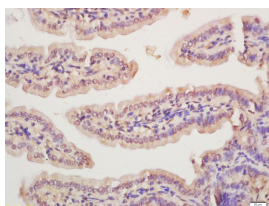
Flow-Cyt (1ug/Test)

ICC/IF (1:25)

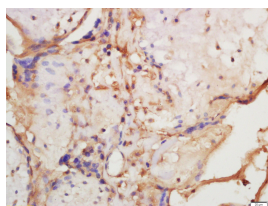
Reactivity: Human, Mouse
(predicted: Rat, Rabbit, Pig,
Sheep, Cow, Dog, Horse)

Predicted
MW.: 37 kDa

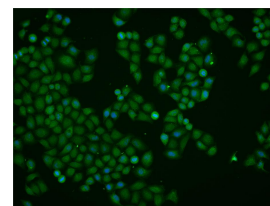
Subcellular
Location: Cytoplasm ,Nucleus

VALIDATION IMAGES

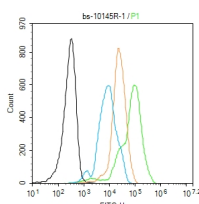
Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Rad51 Polyclonal Antibody, Unconjugated(bs-10145R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Rad51 Polyclonal Antibody, Unconjugated(bs-10145R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Rad51) polyclonal Antibody, Unconjugated (bs-10145R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Blank control (black line) :Hela. Primary
Antibody (green line): Rabbit Anti-Rad51
antibody (bs-10145R) Dilution:1ug/Test;
Secondary Antibody (white blue line) : Goat
anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype
control (orange line) : Normal Rabbit IgG
Protocol The cells were fixed with 4% PFA
(10min at room temperature)and then
permeabilized with 90% ice-cold methanol for
20 min at -20°C, The cells were then incubated in
5%BSA to block non-specific protein-protein
interactions for 30 min at room temperature
.Cells stained with Primary Antibody for 30 min
at room temperature. The secondary antibody
used for 40 min at room temperature.
Acquisition of 20,000 events was performed.