Anti-RecA Antibody [PSH09-96] - BSA and Azide free

HA751327

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Escherichia coli
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 38 kDa
Clone number:	PSH09-96

Description: RecA is a 38 kilodalton protein essential for the repair and maintenance of DNA in bacteria. Structural and functional homologs to RecA have been found in all kingdoms of life. RecA serves as an archetype for this class of homologous DNA repair proteins. The homologous protein is called RAD51 in eukaryotes and RadA in archaea. RecA has multiple activities, all related to DNA repair. In the bacterial SOS response, it has a co-protease function in the autocatalytic cleavage of the LexA repressor and the λ repressor.

Immunogen: Recombinant protein within becterium RecA aa 1-353.

Positive control: E.coli lysates, E.coli.

Subcellular location: Cytoplasm.

Database links: SwissProt: P0A7G6 Escherichia coli

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:100

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

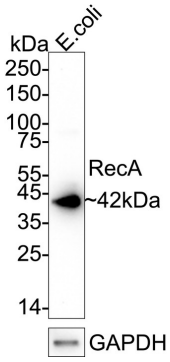

Fig1: Western blot analysis of RecA on E.coli lysates with Rabbit anti-RecA antibody (HA751327) at 1/2,000 dilution.

Lysates/proteins at 10 µg/Lane.

Predicted band size: 38 kDa
Observed band size: 42 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751327) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

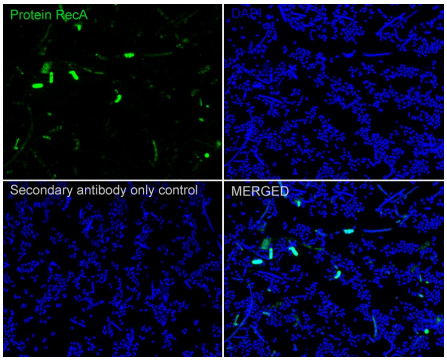

Fig2: Immunocytochemistry analysis of E.coli labeling RecA with Rabbit anti-RecA antibody (HA751327) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-RecA antibody (HA751327) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Background References

1. Kaushik V et al. Interaction of RecA mediated SOS response with bacterial persistence, biofilm formation, and host response. Int J Biol Macromol. 2022 Sep
2. Jain K et al. RecA-independent recombination: Dependence on the Escherichia coli RarA protein. Mol Microbiol. 2021 Jun