

# Anti-RecA Antibody [PSH09-96]

HA723165



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Escherichia coli
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 38 kDa
<b>Clone number:</b>	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  $\lambda$  repressor.

**Immunogen:** Recombinant protein within bacterium RecA aa 1-353.

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

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: P0A7G6 Escherichia coli

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IF-Cell</b>	1:100

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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## Images

**Fig1:** Western blot analysis of RecA on E.coli lysates with Rabbit anti-RecA antibody (HA723165) at 1/2,000 dilution.

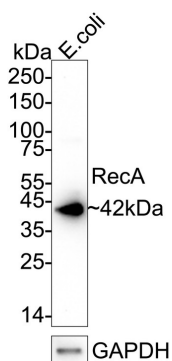
Lysates/proteins at 10 µg/Lane.

Predicted band size: 38 kDa

Observed band size: 42 kDa

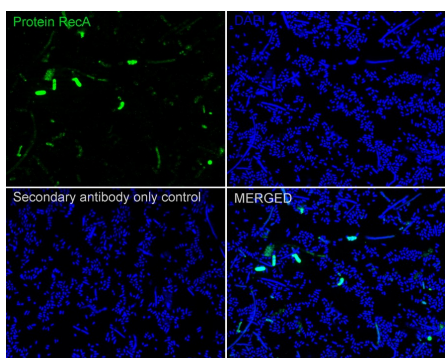
Exposure time: 25 seconds; ECL: K1801;

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 (HA723165) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C 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 (HA723165) 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 (HA723165) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. 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.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### 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

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