Anti-RecA antibody, rabbit polyclonal

61-003　　50 μg,　　61-004　　250 μg

***E. coli* RecA protein** (352 aa, 38 kDa) plays critically important roles in homologous recombination, recombination repair and regulation of cellular responses to DNA damage (SOS response). **RecA** promotes auto-cleavage of LexA repressor by its coprotease activity after DNA damage, and induces many proteins related to DNA repair including **RecA** itself (1).

Applications

1. Western blotting (1/3,000 dilution)
2. Immunoprecipitation (1/600 dilution)
3. Indirect immuno-fluorescent staining (assay dependent)
4. ELISA (assay dependent)

Immunogen: Highly purified full-length recombinant E. coli RecA protein

Purity: The anti-serum was first adsorbed with extract of *recA* deletion strain and affinity-purified with purified RecA protein conjugated with agarose beads.

Form: Antibody solution at 1.0 mg/ml in PBS with 50% glycerol, filter-sterilized

Storage: Shipped at 4℃ or -20℃, and upon arrival, aliquot and store at -20℃ or below.

Data Link　UniProtKB/Swiss-Prot　P0A7G6 (RECA_ECOLI)

Reference: Friedberg EC *et al.* DNA Repair and Mutagenesis 2nd Ed. ASM Presss

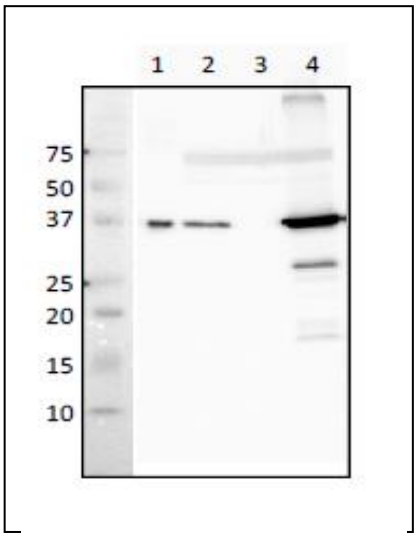

Fig 1. Western blot analysis of RecA protein in crude extract of E. coli.. Lane 1, Purified RecA 8 ng. Lane 2, Wild type. Lane 3, ⊿*recA* mutant. Lane 4, ⊿*lexA* mutant (SOS genes overexpressed). Antibody used at 1/3,000 dilution. Cell extracts, 2 μg

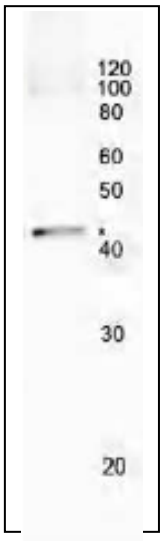

Fig 2. Immunoprecipitation of RecA protein from crudeextract of *E. coli* cells. Antibody 2 μg was adsorbed to proteinA magnetic beads to precipitate RecA protein from supernatant of sonic disrupted *E. coli* cells. The precipitate was analyzed by western blot.

Related product: # 01-001 E.coli RecA protein, functional.

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