

Anti-RuvC antibody, rabbit polyclonal antiserum

61-009 100ul

E. coli **RuvC** protein is a structurally specific endonuclease which binds specifically to the Holliday structure, an intermediate of recombination, at the late stage of homologous recombination and recombination repair and introduces nicks at the symmetrical points of the Holliday junction, cleaving and resolving the recombinant (1). Its molecular weight is 19kD and forms a dimer in liquid.

Applications

Western blotting for the detection of *E. coli* RuvC protein (x 3,000 dilution, Fig.1)

Other applications have not been tested.

Immunogen: Purified full-size recombinant RuvC protein (Ref. 2, 3)

Form: rabbit antiserum added with 0.05% sodium azide

Storage: 4 °C for short period (about a half year)

For longer period, store at -80 °C

Data Link Swiss-Prot [P0A814](#)

References: This product was used in ref.2 and 3.

1. Shinagawa H and Iwasaki H (1996) "Processing the holliday junction in homologous recombination." *Trends Biochem. Sci.* **21**:107-111 PMID: [8882584](#)
2. Ichihara K *et al.* (1998) "Mutational analysis on structure-function relationship of a holliday junction specific endonuclease RuvC." *Genes to Cells* **3**: 575-586 PMID: [9813108](#)
3. Saito A *et al.* (1995) "Identification of four acidic amino acids that constitute the catalytic center of the RuvC Holliday junction resolvase." *Proc. Natl. Acad. Sci. USA* **92**, 7470-7474 PMID: [7638215](#)
4. Friedberg EC, *et al.* DNA Repair and Mutagenesis 2nd ed. ASM Press

Related Products:

[01-007](#) *E. coli* RuvA protein

[01-009](#) *E.coli* RuvB protein

[01-011](#) *E.coli* RuvC protein

61-005 anti-RuvA antibody, rabbit polyclonal

61-007 anti-RuvB antibody, rabbit polyclonal



Fig.1 Detection of RuvC (19kD) proteins in the cell extracts of *E. coli* carrying the plasmids which encode the indicated Mutant RuvC proteins by Western blotting using this antibody (Ref. 2).

WT: wild type RuvC protein

vector: vector plasmid

D7G, D7N, P8L: mutant RuvC proteins