

Anti-RuvC antibody, rabbit polyclonal antiserum

61-009 100 µl

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

Other applications have not been tested.

Specification

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

Form: Rabbit antiserum with 0.05% sodium azide

Storage: 4°C for short term or -80°C for long term storage

Data Link

UniProtKB/Swiss-Prot [P0A814](#) (RUVC_ECOLI)

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. Ichiyonagi 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

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 blot using this antibody (Ref. 2).

WT: wild type RuvC protein

vector: vector plasmid

D7G, D7N, P8L: mutant RuvC proteins

