

Anti-E.coli RuvC antibody, rabbit serum

| | |
|--|--|
| Product code | 61-009 |
| Size | 100 µl |
| Storage | Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Concentration | N/A |
| Buffer | 0.05% sodium azide |
| Purity | Rabbit antiserum |
| Immunogen | Purified full-size recombinant RuvC protein (Ref. 2, 3) |
| Isotype | Rabbit IgG |
| Reactivity | <i>E. coli</i> RuvC protein |
| Special notes | N/A |
| Application | 1. Western blotting (1/3,000 dilution) Fig.1 Other applicacatiotons have not been tested. |
| Background | <i>E. coli</i> 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. |
| Data Link | UniProtKB/Swiss-Prot P0A814 (RUVC_ECOLI) |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE. | |

Data Images: 61-009 Anti-*E.coli* RuvC antibody, rabbit serum

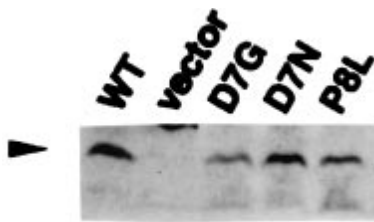


Fig.1 Detection of RuvC (19kD) proteins in the cell extracts of *E. coli* carrying the plasmids which encode the indicated mutant RuvC proteins by Western blotting using this antibody(Ref. 2).

WT: wild type RuvC protein

vector: vector plasmid

D7G, D7N, P8L: mutant RuvC proteins

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. Ichiyanagi 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-*E.coli* RuvA antibody, rabbit serum

61-007 Anti-*E.coli* RuvB antibody, rabbit serum