

Anti-RuvC antibody, rabbit serum

61-009 100 µl

Shipping and Storage: Shipped at 4°C or -20°C and Store at -20°C

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

Form: rabbit antiserum added with 0.05% sodium azide

Applications

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

Other applications have not been tested.

Background: *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.

Data Link UniProtKB/Swiss-Prot [P0A814](#) (RUV_C_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. Ichianagi 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



Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN
DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.