



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-61-009-EX

Anti-RuvC

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.

Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Liquid rabbit antiserum added with 0.05% sodium azide
Volume	100 µl
Concentration	
Specificity	RuvC
Antigen	Purified full-size recombinant RuvC protein (Ref. 2, 3)
Isotype	

Application notes Western blotting for the detection of *E. coli* RuvC protein
Other applications have not been tested.

Recommended use

Recommended dilutions

Western blotting: x 3,000 dilution (Fig.1)

Optimal dilutions/concentrations should be determined by the end user.

Data Link: UniProtKB/Swiss-Prot [P0A814](#) (RUV_C_ECOLI)

Staining Pattern

Cross reactivity

Storage 4°C for short period (about a half year) For longer period, store at -80°C

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

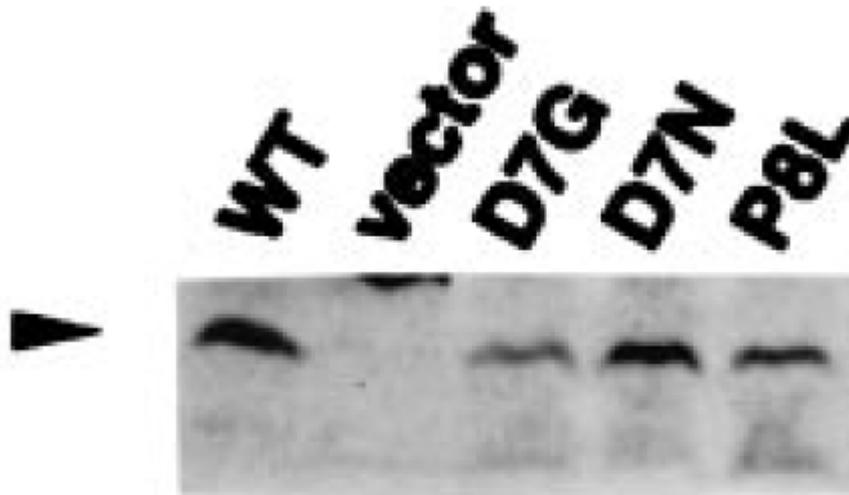


Fig.1 Detection of RuvC (19kD) proteins in the cell extracts of 01-011 *E.coli* RuvC protein *E. coli* carrying the plasmids which encode the indicated mutant RuvC proteins by Western blotting using this antibody (Ref. 2).
WT: wild type RuvC protein
vector: vector plasmid
D7G, D7N, P8L: mutant RuvC proteins

Related Products

BAM-01-007-EX	<i>E. coli</i> RuvA protein
BAM-01-009-EX	<i>E. coli</i> RuvB protein
BAM-01-011-EX	<i>E. coli</i> RuvC protein
BAM-61-005-EX	anti-RuvA antibody, rabbit polyclonal
BAM-61-007-EX	anti-RuvB antibody, rabbit polyclonal

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TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

http://www.cosmobio.co.jp/index_e.asp

E-mail: export@cosmobio.co.jp

Phone : +81-3-5632-9617

FAX : +81-3-5632-9618