

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 recombinatioin 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 dimmer 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)

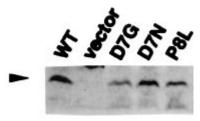
For longer period, store at -80°C

Data Link 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. 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: <u>9813108</u>
- 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