



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-61-005-EX

Anti-RuvA

BACKGROUND

E. coli **RuvA** protein binds specifically to the Holliday structure which is the intermediate of recombination at the late stage of homologous recombination and recombination repair, and forms a complex with RuvB motor protein, allowing the migration of Holliday junction using ATP hydrolysis energy and expands the heteroduplex region. In solution, it forms a tetramer and binds to the cross-like DNA of the Holliday junction from below and above, holding it in between (1, 2).

Using this antiserum in Western blotting, the band of 22kD corresponding to **RuvA** was obtained from the extract of *E. coli* cells (Fig.1).

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

Application notes WB, ELISA Other applications have not been tested.

Recommended use

Recommended dilutions

Western blotting: x3,000 dilution (Fig. 1)

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

Data Link: UniProtKB/Swiss-Prot [P0A809](#) (RUVA_ECOLI)

Staining Pattern

Cross reactivity

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

References

- 1) Shinagawa H and Iwasaki H (1996) "Processing the holliday junction in homologous recombination" *Trends Biochem Sci* **21**:107-111 PMID: [8882584](#)
- 2) Iwasaki H *et al* (1992) "Escherichia coli RuvA and RuvB proteins specifically interact with Holliday junctions and promote branch migration" *Genes Dev* **6**:2214-2220 PMID: [1427081](#)

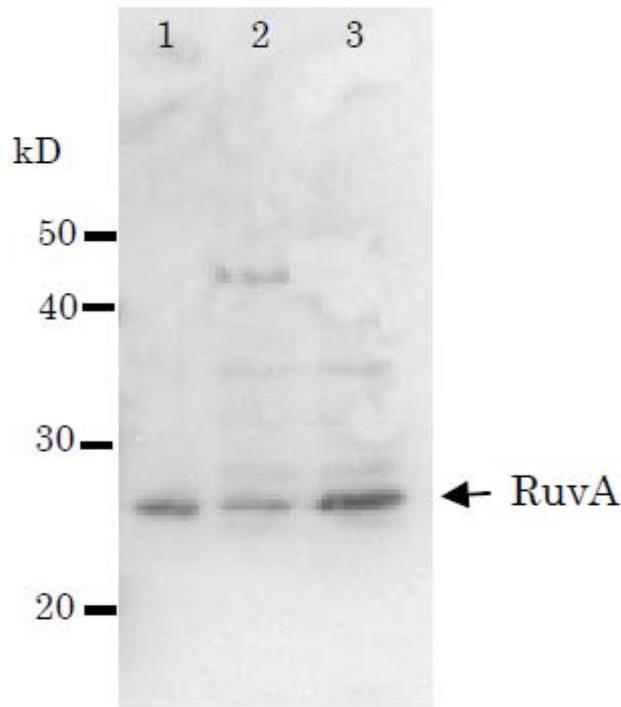


Fig1. Detection of RuvA (22kD) protein by Western blotting using this antibody.
lane1: RuvA protein 0.8ng
lane2: E. coli AB1157 crude extract
lane3: E. coli AB1157 lexA mutant crude extract
Expression of RuvA is enhanced by lexA mutation.

Related Products

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

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