Anti-RuvA antibody, rabbit polyclonal antiserum

61-005　　100ul

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).

Applications

1) ELISA

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

Other applications have not been tested.

Immunogen: Purified full-size　recombinant RuvA protein (2)

Form:　antiserum added with 0.05% sodium azide

Storage: 4℃ for short period (about a half year)

For longer period, store at -80℃

DataLink Swiss-Prot P0A809

References

1. Shinagawa H and Iwasaki H (1996) "Processing the holliday junction in homologous recombination." *Trends Biochem. Sci.* **21**:107-111PMID: 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

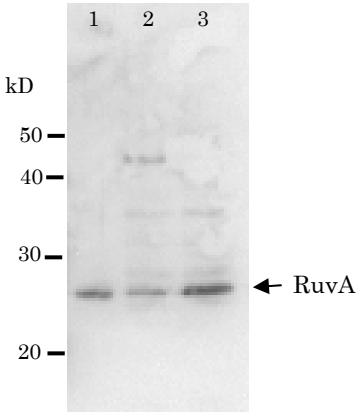

Fig1. Detection of RuvA (22kD) protein by Western blotting using this antibody.
lane1: RuvA protein 0.8ng
lane2: *E. coli* AB1157 crude extract
lane3: *E. coli* AB1157 *lexA* mutant crude extract
Expression of RuvA is enhanced by *lexA* mutation.

Related Products:

01-007 ***E. coli*** **RuvA protein**

01-009 ***E.coli*** **RuvB protein**

01-011 ***E.coli*** **RuvC protein**

61-007 anti-RuvB antibody, rabbit polyclonal

61-009 anti-RuvC antibody, rabbit polyclonal

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