abcam

Product datasheet

Recombinant E. coli RuvC protein (Active) ab63828

3 References 1 Image

Description

Product name	Recombinant E. coli RuvC protein (Active)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P0A814
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Escherichia coli
Sequence	MAIILGIDPGSRVTGYGVIRQVGRQLSYLGSGCIRTKVDD LPSRLKLIYAGVTEIITQFQPDYFAIEQVFMAKNADSALKLG QARGVAIV AAVNQELPVFEYAARQVKQTVVGIGSAEKSQVQHMVRTL LKLPANPQADA ADALAIAITHCHVSQNAMQMSESRLNLARGRLR
Description	Recombinant *E. coli* RuvC protein (Active)

Specifications

Our **Abpromise guarantee** covers the use of **ab63828** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA Functional Studies
Form	Liquid
Additional notes	ab63828 can be used for: 1) Studies on the homologous recombination mechanism. 2) To use as an endonuclease which functions specifically to the Holliday structure.

Preparation and Storage

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Stable for 12 months at -20°C.

pH: 6
Constituents: 0.039% Beta mercaptoethanol, 0.158% Tris HCl, 0.0584% EDTA, 50% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

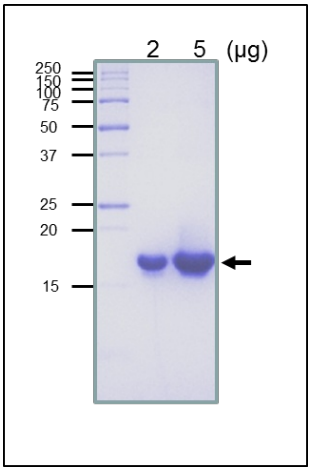
This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Relevance

In Escherichia coli, the RuvA, RuvB and RuvC proteins are required for the late stages of homologous recombination and DNA repair. They are involved in processing the Holliday junction during homologous recombination. RuvA protein binds to both single-stranded and double stranded DNA and enhances ATPase activity of RuvB. RuvA and RuvB promote branch migration whereas RuvC resolves junctions by endonucleolytic cleavage. Moreover RuvAB stimulate Holliday junction resolution by RuvC. The RuvA-RuvB complex interacts with an irregular conformation in damaged DNA and induces conformational changes in DNA using energy provided by ATP hydrolysis, so that it facilitates DNA repair, recombination and error prone replication. RuvABC proteins are responsible for the occurrence of DSBs at arrested replication forks. In cells proficient for RecBC, RuvAB is uncoupled from RuvC and DSBs may be prevented.

Images



SDS-PAGE - Recombinant *E. coli* RuvC protein (Active) (ab63828)

SDS-PAGE analysis of Recombinant *E. coli* RuvC protein (ab63828).

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