abcam

Product datasheet

Recombinant E. coli RuvA protein (Active) ab63819

1 图像

描述

产品名称	重组E. coli RuvA蛋白(Active)
纯度	> 90 % SDS-PAGE. purified by methods such as chromatography
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Escherichia coli
描述	重组*E. coli* RuvA蛋白(Active)

技术指标

Our **Abpromise guarantee** covers the use of **ab63819** in the following tested applications.

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

应用	SDS-PAGE Functional Studies
形式	Liquid
补充说明	This protein may be suitable for the following applications. 1) Studies on homologous recombination mechanism. 2) For SNP analysis. 3) Incorporation to DNA circuit. 4) Recognition and identification of cross-like DNA.

制备和贮存

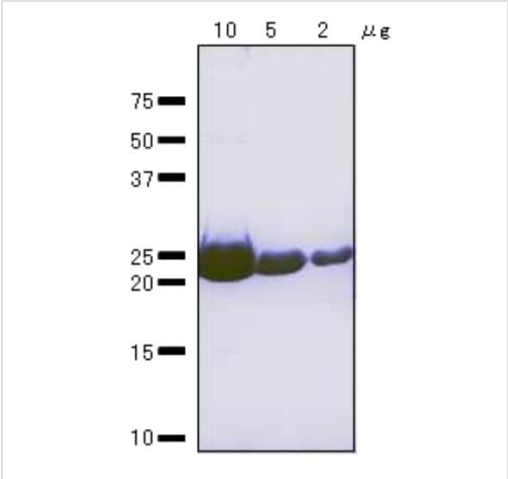
稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 6 Constituents: 0.039% Beta mercaptoethanol, 0.158% Tris HCl, 0.0584% EDTA, 50% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

相关性

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. RuvB protein has weak ATPase activity. RuvA bound to DNA greatly enhances ATPase activity of RuvB. UV-irradiation to supercoiled DNA further enhances the stimulatory effect of RuvA on the RuvB ATPase activity. In the presence of ATP the RuvA-RuvB complex has an activity that renatures cruciform structures formed by heating and gradually cooling supercoiled DNA with an inverted repeat. 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.

图片



SDS-PAGE - Recombinant *E. coli* RuvA protein (Active) (ab63819)

SDS-PAGE analysis of Recombinant *E. coli* RuvA protein (ab63819).

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