abcam

Product datasheet

Recombinant E. coli RuvC protein (Active) ab63828

3 References 1 图像

描述

产品名称	重组E. coli RuvC蛋白(Active)
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	**P0A814**
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Escherichia coli
序列	MAIILGIDPGSRVTGYGVIRQVGRQLSYLGSGCIRTKVDD LPSRLKLIYAGVTEIITQFQPDYFAIEQVFMAKNADSALKLG QARGVAIV AAVNQELPVFEYAARQVKQTVVGIGSAEKSQVQHMVRTLLKL PANPQADA ADALAIAITHCHVSQNAMQMSESRLNLARGRLR
描述	重组*E. coli* RuvC蛋白(Active)

技术指标

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.

应用	SDS-PAGE
	Western blot
	ELISA
	Functional Studies
形式	Liquid
补充说明	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.

制备和贮存

稳定性和存储

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

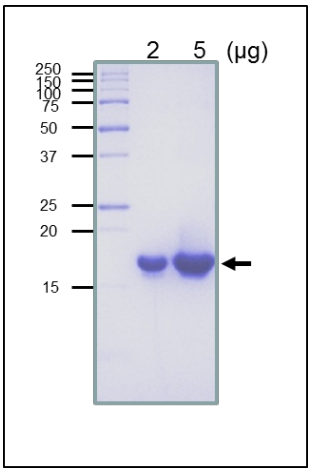
This product is an active protein and may elicit a biological response in vivo, handle with caution.

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 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.

图片



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

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

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