Datasheet for ABIN2452186

RuvC Protein

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Overview

Quantity:	20 µg
Target:	RuvC
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Protein Type:	Native
Biological Activity:	Active
Application:	SDS-PAGE (SDS), Functional Studies (Func), ELISA, Western Blotting (WB)

Product Details

Characteristics:	Full-length recombinant protein expressed in E.coli and highly purified by combined chromatography. RuvC protein purity is over 90 % by SDS-PAGE (CBB staining)

Target Details

Target:	RuvC
Alternative Name:	RuvC (RuvC Products)
Background:	E. coli RuvC protein (19 kDa) is a structurally specific endonuclease which binds specifically to the Holliday structure, an intermediate of recombination, at the late stage of homologous recombination and recombination repair and introduces a nick in the symmetrical point of the Holliday junction leaving and resolving the recombinant. Functional form is dimmer.
UniProt:	P0A814

Application Details

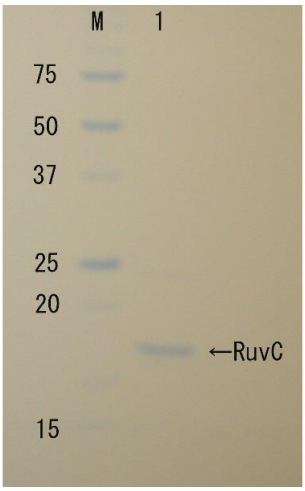
Application Notes:	1) Functional studies in vitro. RuvC cleaves recombination intermediate at Holliday Junction. 2) SDS-PAGE (0. 2 g/lane) 3) Standard antigen for western blotting and ELISA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	50 % glycerol, 10 mM Tris-HCl (pH 7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol
Storage:	-20 °C/-80 °C
Storage Comment:	Upon arrival centrifuge briefly and store at -20 C or at -80 C for longer storage.

Publications

Product cited in:	Murayama, Kurokawa, Mayanagi, Iwasaki: "Formation and branch migration of Holliday junctions mediated by eukaryotic recombinases." in: **Nature**, Vol. 451, Issue 7181, pp. 1018-21, (2008) (PubMed). Shinagawa, Iwasaki: "Processing the holliday junction in homologous recombination." in: **Trends in biochemical sciences**, Vol. 21, Issue 3, pp. 107-11, (1996) (PubMed). Iwasaki, Takahagi, Shiba, Nakata, Shinagawa: "Escherichia coli RuvC protein is an endonuclease that resolves the Holliday structure." in: **The EMBO journal**, Vol. 10, Issue 13, pp. 4381-9, (1992) (PubMed).



SDS-PAGE

Image 1.

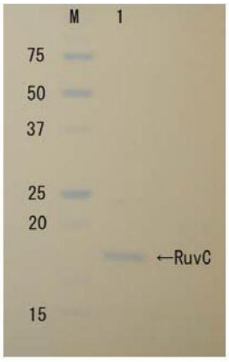


Fig.1 Polyacrylamide gel electrophoresis of RuvC protein.

SDS-PAGE

Image 2.