ANTIBODIES ONLINE

Datasheet for ABIN2452182 RuvA Protein

2 Publications



Overview

Quantity:	20 µg
Target:	RuvA
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)
Product Details	
Characteristics:	The product is a recombinant protein abundantly expressed by E. coli and purified by methods such as chromatography. The molecular weight is 22 kD and even in solution, it binds to the Holliday structure and form a tetramer.
Purity:	> 90 % by SDS-PAGE (CBB staining)
Target Details	
Target:	RuvA
Abstract:	RuvA Products
Background:	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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/2 | Product datasheet for ABIN2452182 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
	binds to the cross-like DNA of the Holliday junction from below and above holding it in between
UniProt:	P0A809
Application Details	
Application Notes:	1) Functional as Holliday junction specific binding protein, which promotes Holliday-junction
	branch migration in combination with RuvB protein.
	2) For SNP analysis (Genome Research 13:1754-1764 PMID: 12840050).
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	2.7 mg/mL
Buffer:	50 % glycerol, 10 mM Tris-HCl (pH 7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol
Storage:	-20 °C
Publications	
Product cited in:	Han, Tani, Hayashi, Hishida, Iwasaki, Shinagawa, Harada: "Direct observation of DNA rotation
	during branch migration of Holliday junction DNA by Escherichia coli RuvA-RuvB protein
	complex." in: Proceedings of the National Academy of Sciences of the United States of
	America, Vol. 103, Issue 31, pp. 11544-8, (2006) (PubMed).
	Iwasaki, Takahagi, Nakata, Shinagawa: "Escherichia coli RuvA and RuvB proteins specifically
	interact with Holliday junctions and promote branch migration." in: Genes & development, Vol.
	(1000, 11, pp, 2214, 20, (1002), (Dub) (ad))

6, Issue 11, pp. 2214-20, (1992) (PubMed).