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RuvB (Active) Protein

Images

Publications



Overview

Quantity:	20 μg
Target:	RuvB
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	

Full-length recombinant protein expressed in E.coli and highly purified by combined

chromatography. RuvB protein is over 90 % by SDS-PAGE (CBB staining) pure.

Target Details

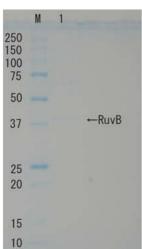
Characteristics:

Target:	RuvB
Background:	E. coli RuvB protein forms a complex with RuvA protein at the late stage of homologous
	recombination and recombination repair and binds specifically to the Holliday structure which
	is the intermediate of recombination, allowing the migration of Holliday junction using ATP
	hydrolysis energy and expands the heteroduplex region. RuvB forms a hexamer ring structure
	and surrounds the double chain DNA and covers RuvA tetramer bound to the Holliday junction
	from both sides. RuvB is a DNA motor protein which possesses the ATPase activity, activated
	by DNA and RuvA protein. Its molecular weight is 37 kD and forms a dimer in solution in the
	physiological condition

Target Details	
UniProt:	P0A812
Application Details	
Application Notes:	1) Functional studies in vitro,RuvA and RuvB form a complex that promotes Holiday junction (a
	recombination intermediatae) branch-migration by using ATP hydrolysis energy. RuvB also has
	ATPase activity which is stimulated by RuvA and DNA.
	2) SDS-PAGE (0. 2 g/lane)
	3) Standard antigen for western blotting and ELISA
Restrictions:	For Research Use only
11 11	
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	
Publications	
Product cited in:	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, Nakata, Shinagawa: "Escherichia coli RuvA and RuvB proteins specifically
	interact with Holliday junctions and promote branch migration." in: Genes & development, Vol.

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







protein.

SDS-PAGE

Image 1.

SDS-PAGE

Image 2.

SDS-PAGE

Image 3.