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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS21 4544P

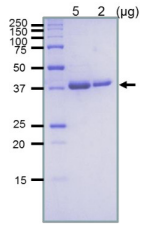
RuvB (protein, positive control)

Product information

Purity	Over 95 % pure by SDS-PAGE
Format	Liquid, contains 50% glycerol, 10 mM Tris-HCl (pH 7,5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol.
Quantity	20 µg
Storage	Store at -20°C or -80°C (for longer storage); once make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
Additional information	This product can be used in: • *in vitro* functional studies. RuvA and RuvB are forming a complex that promotes Holiday junction (a recombination intermediate) branch-migration by using ATP hydrolysis energy. • As a positive control in Western blot and standar in ELISA.

Application information

Expected | apparent MW	37 kDa
Additional information	RuvB protein is full length, highly purified (over 95 %, SDS-PAGE), recombinant. UniProt: P0A812
Selected references	Mazina et al. (2012) Polarity and bypass of DNA heterology during branch migration of Holliday junctions by human RAD54, BLM, and RECQ1 proteins. J Biol Chem. 2012 Apr 6;287(15):11820-32. doi: 10.1074/jbc.M112.341347. Epub 2012 Feb 22. PMID: 22356911; PMCID: PMC3320930. Han et al. (2006). Direct observation of DNA rotation during branch migration of Holliday junction DNA by Escherichia coli RuvA-RuvB protein complex. Proc Natl Acad Sci U S A. 2006 Aug 1;103(31):11544-8. doi: 10.1073/pnas.0600753103. Epub 2006 Jul 24. PMID: 16864792; PMCID: PMC1544206. Iwasaki et al. (1992) Escherichia coli RuvA and RuvB proteins specifically interact with Holliday junctions and promote branch migration. Genes Dev. 1992 Nov;6(11):2214-20. doi: 10.1101/gad.6.11.2214. PMID: 1427081.



5 and 2 µg of highly purified RuvB protein from *Escherichia coli* was separated on SDS-PAGE and stained by Coomasie.