

Product datasheet

Recombinant rat DNA Polymerase beta protein ab123225

[1 References](#) [1 Image](#)

Description

Product name	Recombinant rat DNA Polymerase beta protein
Biological activity	Enzyme activity: 90 unit/μl (1unit of the enzyme activity incorporates 1 nanomole of dNTP into acid-insoluble fraction at 37°C in 60 min.)
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P06766</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Predicted molecular weight	38 kDa
Amino acids	2 to 335

Specifications

Our **Abpromise guarantee** covers the use of **ab123225** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies SDS-PAGE
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Form	Liquid
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Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 6 Constituents: 2.28% Potassium chloride, 0.02% DTT, 0.79% Tris HCl, 0.003% EDTA, 20%
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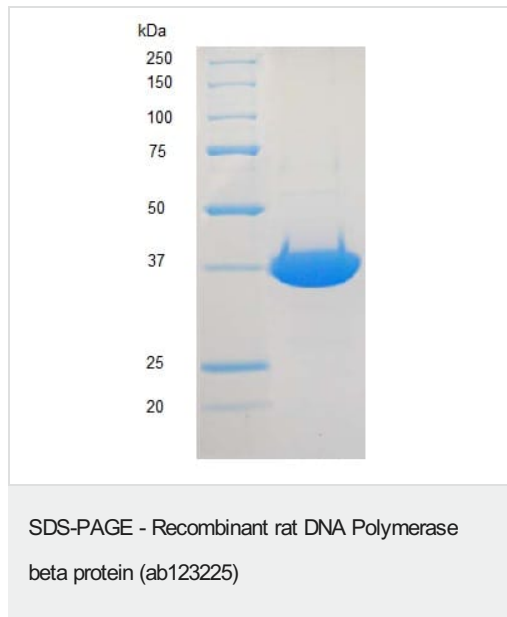
Glycerol (glycerin, glycerine)

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

General Info

Function	Repair polymerase. Conducts "gap-filling" DNA synthesis in a stepwise distributive fashion rather than in a processive fashion as for other DNA polymerases. Has a 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity.
Sequence similarities	Belongs to the DNA polymerase type-X family.
Domain	Residues 239-252 form a flexible loop which appears to affect the polymerase fidelity.
Post-translational modifications	Methylation by PRMT6 stimulates the polymerase activity by enhancing DNA binding and processivity.
Cellular localization	Nucleus, Cytoplasm

Images



SDS-PAGE of ab123225

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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