

## Damaged DNA Repair Enzymes II

RK20234



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## 1. Product Overview

FFPE refers to formalin-fixed paraffin-embedded samples, in which DNA is severely damaged. Damaged DNA Repair Enzymes II is an optimized enzyme mixture primarily used to repair FFPE sample DNA, thereby obtaining high-quality sequencing data.

Specific features include:

- Higher repair efficiency for FFPE DNA.
- More convenient reaction buffer, suitable for all buffers required for end repair/adenylation.
- No need for further purification after purification with thermosensitive proteinase K, can directly enter the library construction step.
- Can be directly applied to DNA end repair steps.

## 2. Components

Components Name	24 RXN	96 RXN
 Damaged DNA Repair Enzymes II	72 $\mu$ L	288 $\mu$ L

## 3. Storage




Storage:  $-20^{\circ}\text{C}$  to  $-10^{\circ}\text{C}$ .

Long-distance transportation: The kit should be transported with dry ice or with both dry ice and ice bags at  $-40^{\circ}\text{C}$  to  $-20^{\circ}\text{C}$ .

## 4. Protocol

### 4.1. Reference Experimental Procedure: Rapid Plus DNA Lib Prep Kit V2 (No DDREs) (ABclonal, Cat.NO. RK20271) End Repair and dA Tailing.

Prepare the following system on ice:

Reagents	Volume
Fragmented DNA	X $\mu$ L
 End Prep Buffer II (RM20665)	7 $\mu$ L
 End Prep Enzymes (RM20201)	3 $\mu$ L
 Damaged DNA Repair Enzymes II* (RM20666)	3 $\mu$ L
Nuclease-free Water	Up to 60 $\mu$ L

Mix the prepared system well by pipetting, centrifuge it instantaneously, and incubate it in the PCR system (heating lid temperature  $105^{\circ}\text{C}$ ).

Temperature	Time
30°C	30 min
65°C	30 min
4°C	∞

Please refer to the instructions for use of the Rapid Plus DNA Lib Prep Kit V2 (No DDREs) (ABclonal, Cat. No. RK20271) for subsequent adapter ligation, purification, and library amplification steps.

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