

# Yeast DNA Polymerase $\zeta$

Molecular Mass: 173 kDa (Rev3) + 29 kDa (Rev7)

<b>Catalog #</b>	<b>Size</b>
ANT-51	2 $\mu$ g

## Description

DNA polymerase  $\zeta$  is a member of the B family DNA polymerases. It consists of the catalytic Rev3 subunit and the non-catalytic Rev7 subunit. Pol $\zeta$  plays a major role in translesion DNA synthesis and DNA damage-induced mutagenesis. Activities of nucleotide insertion opposite the lesion and extension synthesis from opposite the lesion have been reported for Pol $\zeta$ . The Rev3-Rev7 complex was purified from yeast according to Guo *et al.* (Nucleic Acids Res., 29, 2875).

## Reaction Buffer

25 mM potassium phosphate (pH 7.0), 5 mM MgCl<sub>2</sub>, 5 mM DTT, 100  $\mu$ g/ml BSA, 10% glycerol, 50-100  $\mu$ M dNTPs.

## Dilution Buffer

25 mM Tris-HCl (pH 7.5), 2.5 mM  $\beta$ -mercaptoethanol, 50% glycerol.

## Storage Buffer

50 mM Tris-HCl (pH 7.5), 300 mM KCl, 2.5 mM  $\beta$ -mercaptoethanol, 10% glycerol.

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