

Anti-DNA polymerase β antibody, rabbit serum

70-041 50 ul 70-042 250 ul

DNA polymerase β is a distributive polymerase involved in base excision repair which repairs damaged DNA by excising modified bases (oxidized, methylated, deaminated etc.) (1). It has single-strand DNA binding and deoxyribose phosphodiesterase activities on the N-terminal side, and nucleotidyltransferase activity on the C-terminal side. The enzyme is constitutively expressed in growing cells but the level of expression is further increased by treatment with alkylating reagents such as MNNG and MMS.

Applications

- 1) Western blotting (0.2~1 ug /ml)
- 2) Immunoprecipitation

Other applications such as indirect immuno-staining were not tested but may be possible.

Properties of the product

Antigen: Highly purified, full-length, active recombinant DNA polymerase β of rat (2)

Antibody: Affinity-purified with recombinant DNA polymerase β

Reactivity: Rat, human, mouse

Form: 1 mg/ml in PBS, 50% glycerol

Storage: -20°C (long period; -70°C)

Reference

1. Friedberg EC, et al. DNA Repair and Mutagenesis 2nd ed., ASM Press (2006)
2. Date T. et al. Biochemistry 27: 2983 (1988)

Fig.1. Western blot analysis of recombinant DNA polymerase β (rat) with this antibody

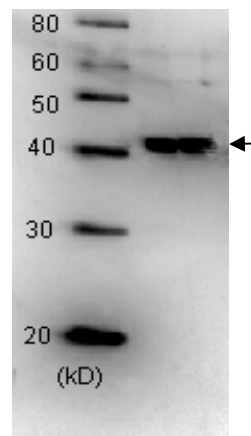


Fig.1

Fig.2. Identification of human DNA polymerase β in the crude extract of MCF7 cell by western blotting using this antibody.

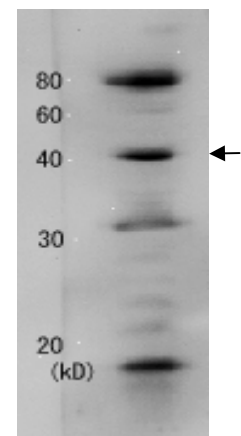


Fig.2

Related product: #10-101 DNA polymerase β (rat), recombinant enzyme with high activity

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