



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-70-042-EX

Anti-DNA polymerase β , rabbit serum

BACKGROUND

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.

Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Liquid
Volume	Affinity-purified, 1 mg/ml in PBS, 50% glycerol
Concentration	250 μ l
Specificity	
Antigen	Highly purified, full-length, active recombinant DNA polymerase β of rat (2)
Isotype	

Application notes WB, IP, Other applications such as indirect immunostaining have not been tested but may be possible.

Recommended use

Recommended dilutions

Western blotting: 0.2~1 μ g/ml

Optimal dilutions/concentrations should be determined by the end user.

Data Link: UniProtKB/Swiss-Prot [P06766](#) (DPOLB_RAT), [P06746](#) (DPOLB_HUMAN), [Q8K409](#) (DPOLB_MOUSE)

Staining Pattern

Cross reactivity Rat, human, mouse

Storage -20°C (for long period; -70°C)

References

- 1) Friedberg EC *et al* *DNA Repair and Mutagenesis* 2nd ed., ASM Press (2006)
- 2) Date T *et al* "Expression of active rat DNA polymerase beta in Escherichia coli" *Biochemistry* **27**: 2983-2990 (1988) PMID: [3042024](#)

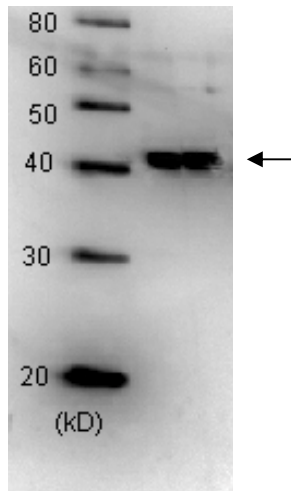


Fig.1 Western blot analysis of recombinant DNA polymerase β (rat) with this antibody.

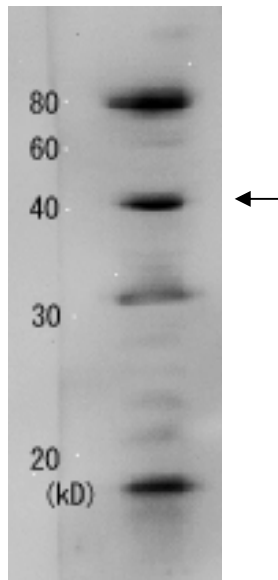


Fig.2 Identification of human DNA polymerase β in the crude extract of MCF7 cells by Western blotting using this antibody.

Related Products

BAM-10-101-EX DNA polymerase β (rat), recombinant enzyme with high activity

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