



## Anti-DNA polymeraseß antibody, rabbit polyclonal

Cat.#70-041, Size:50 ug

## Background:

DNA polymerase  $\beta$  is a distributive polymerase involved in base excision repair which repairs damaged DNA by excising modified bases (oxidized, methylated, deaminated etc.). 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.

## **Specifications:**

Reactivity: human, rat, mouse, hamster

Validated by full-size recombinant DNA polymerase  $\beta$ 

Form: 1 mg/ml in PBS, 50% glycerol, filter-sterilized. Azide and carrier free

Immunogen: Recombinant rat DNA polymerase beta, functional

Storage: Shipped at 4°C and stored at -20°C

Continuation of 70-041 antiserum, this product was affinity-purified with immunogen.

## **Applications**

- Western blotting (1/2,000~1/3,000)
- Immunoprecipitation (1/200)
- Immunofluorescent staining (1/1,000)
- ELISA (assay dependent)

Tel: 408-638-7415

Data Link UniProtKB/Swiss-Prot P06766 (DPOLB\_RAT), P06746 (DPOLB\_HUMAN)

**References:** This antibody has not yet been referenced in publication.





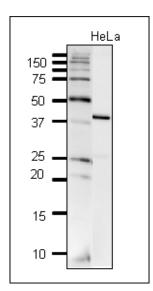


Fig.1 Detection of DNA polymerase beta in crude extract of HeLa cells by western blotting.

The antibody was used at 1/2,000 dilution. 10 ug of the cell extract was used.

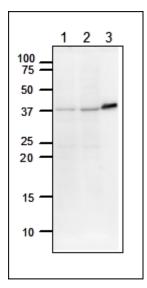


Fig.2 Detection of DNA polymerase beta by western blotting.

- NIH 3TS cells (20 ug)
- 2. CHO cells (20 ug)
- Full size recombinant DNA polymerase beta (5.2 ng)

The antibody was used at 1/2,000 dilution

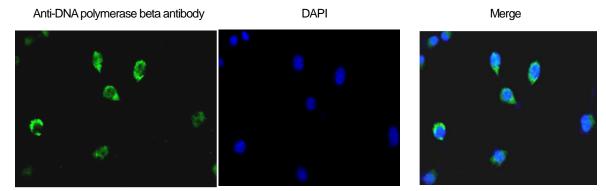


Fig.3 Immunofluorescence staining of DNA polymerase beta in NIH 3T3 cells with the antibody.

The cells were fixed with 4% PFA and permeabilized with 0.25% Triton X-100. The anti-DNA polymerase beta antibody was used at 1/1,000 dilution. Nulear DNA was stained with DAPI and the merged image was shown on the right.