

DNA Polymerase, beta Ab-1 (Clone 18S)

Mouse Monoclonal Antibody

Cat. #MS-669-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-669-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-669-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)

Description: DNA polymerase β comprises an amino-terminal 8-kDa domain and a carboxy-terminal 31-kDa domain. The N-terminal ssDNA binding domain has a deoxyribose phosphodiesterase activity while the C-terminal domain has a nucleotidyltransferase activity. Mammalian DNA polymerase β , a DNA repair polymerase, is constitutively expressed in cultured cells, but treatment of cells with the DNA-alkylating agents such as N-methyl-N'-nitro-N-nitrosoguanidine (MNNG) or methyl methanesulfonate up-regulates beta-pol level. DNA polymerase β fills single nucleotide gaps in DNA produced by the base excision repair pathway of mammalian cells.

Comments: Ab-1 shows no effect on the polymerase activity of beta-pol.

Mol. Wt. of Antigen: 39kDa

Epitope: Not determined

Species Reactivity: Human, Cow, Mouse, Rat, Hamster, and *Xenopus*. Others-not known.

Clone Designation: 18S

Ig Isotype: IgG₁

Immunogen: Rat DNA polymerase beta protein.

Applications and Suggested Dilutions:

- Effect on Polymerase Activity (Non-inhibitory)
- Immunoprecipitation (Denatured verified)
(Use Protein G; Ab at 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: HeLa cells.

Cellular Localization: Nuclear

Supplied As: 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Srivastava DK, *et. al.* Journal of Biological Chemistry, 1995, 270(27):16402-8.

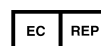
Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only



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