

Product datasheet for AP06087PU-N

DNA Polymerase beta (POLB) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies IHC, WB **Applications:** Recommended Dilution: Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin sections: 1/50-1/200. **Reactivity:** Human, Mouse, Rat Host: Rabbit Polyclonal **Clonality:** Specificity: This antibody detects endogenous levels of DNA polymerase beta / DPOLB protein (region surrounding Gln324). Formulation: Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide **Concentration:** 1.0 mg/ml **Purification:** Affinity Chromatography using epitope-specific immunogen **Conjugation:** Unconjugated Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Predicted Protein Size: ~38 kDa Gene Name: polymerase (DNA) beta Entrez Gene 18970 MouseEntrez Gene 29240 RatEntrez Gene 5423 Human Database Link: P06746



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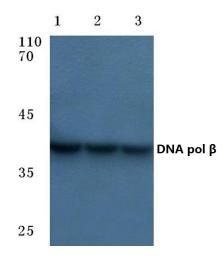
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GRIGENE DNA Polymerase beta (POLB) Rabbit Polyclonal Antibody – AP06087PU-N

Background:DNA replication, recombination and repair, all of which are necessary for genomic stability,
require the presence of exonucleases. In DNA replication, these enzymes are involved in the
processing of Okazaki fragments, whereas in DNA repair they function to excise damaged
DNA fragments and correct recombinational mismatches. These exonucleases include the
family of DNA polymerases. DNA pol α, β, δ and ε are involved in DNA replication and repair.
DNA pol δ and DNA pol ε are multisubunit enzymes, with DNA pol δ consisting of two
subunits—p125, which interacts with the sliding DNA clamp protein PCNA, and p50. The
nuclear-encoded DNA pol γ is the only DNA polymerase required for the replication of the
mitochondrial DNA. DNA pol ζ is ubiquitously expressed in various tissues and mediates the
cellular mechanism of damage-induced mutagenesis. DNA pol θ is a DNA polymerase-
helicase that binds ATP and is involved in the repair of interstrand crosslinks.

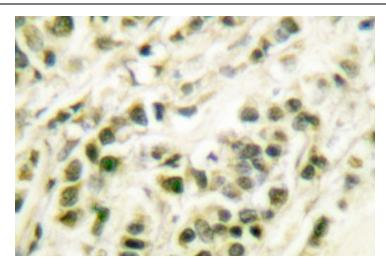
Synonyms:	POLB
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair

Product images:



Western blot (WB) analysis of DNA pol β antibody (Cat.-No.: AP06087PU-N) at 1/500 dilution Lane 1:Hela cell lysate Lane 2:sp2/0 cell lysate Lane 3:Rat brain tissue lysate

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Immunohistochemical analysis in paraffinembedded human breast carcinoma tissue using DNA polymerase beta Antibody Cat.-No AP06087PU-N.

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