



# DNA pol $\beta$ (Acetyl Lys72) rabbit pAb

<b>Catalog No</b>	BYab-00919
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB; ELISA
<b>Gene Name</b>	POLB
<b>Protein Name</b>	DNA pol $\beta$ (Acetyl Lys72)
<b>Immunogen</b>	Synthesized peptide derived from human DNA pol $\beta$ (Acetyl Lys72)
<b>Specificity</b>	This antibody detects endogenous levels of Human,Mouse,Rat DNA pol $\beta$ (Acetyl Lys72)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:1000-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	DNA polymerase beta (EC 2.7.7.7;EC 4.2.99.-)
<b>Observed Band</b>	38kD
<b>Cell Pathway</b>	Nucleus. Cytoplasm. Cytoplasmic in normal conditions. Translocates to the nucleus following DNA damage.
<b>Tissue Specificity</b>	
<b>Function</b>	DNA metabolic process, DNA replication, DNA-dependent DNA replication, DNA repair, base-excision repair, pyrimidine dimer repair, anti-apoptosis, response to DNA damage stimulus, cell death, regulation of cell death, death, cellular response to stress, regulation of apoptosis, negative regulation of apoptosis, regulation of programmed cell death,negative regulation of programmed cell death, negative regulation of cell death,
<b>Background</b>	catalytic activity:Deoxynucleoside triphosphate + DNA(n) = diphosphate + DNA(n+1).,cofactor:Binds 2 magnesium ions per subunit.,domain:Residues 239-252 form a flexible loop which appears to affect the polymerase fidelity.,function:Repair polymerase. Conducts "gap-filling" DNA synthesis in a stepwise distributive fashion rather than in a processive fashion as for other DNA

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polymerases. Has a 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity.,PTM:Methylation by PRMT6 stimulates the polymerase activity by enhancing DNA binding and processivity.,similarity:Belongs to the DNA polymerase type-X family.,subunit:Monomer.,

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**