

## DNA pol Zeta Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP02663
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DNA Polymerase zeta. AA range:231-280
<b>Mol wt</b>	352776
<b>Species reactivity</b>	Human, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	DNA pol zeta Antibody
<b>Synonyms</b>	REV3L; POLZ; REV3; DNA polymerase zeta catalytic subunit; Protein reversionless 3-like; REV3-like; hREV3

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### 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  $\alpha$ ,  $\beta$ ,  $\delta$ , and  $\epsilon$  are involved in DNA replication and repair. DNA pol  $\delta$  and DNA pol  $\epsilon$  are multisubunit enzymes, with DNA pol  $\delta$  consisting of two subunits p125, which interacts with the sliding DNA clamp protein PCNA, and p50. The nuclear-encoded DNA pol  $\gamma$  is the only DNA polymerase required for the replication of the mitochondrial DNA. DNA pol  $\Omega$  is ubiquitously expressed in various tissues and mediates the cellular mechanism of damage-induced mutagenesis. DNA pol  $\alpha$  is a DNA polymerase-helicase that binds ATP and is involved in the repair of interstrand crosslinks.

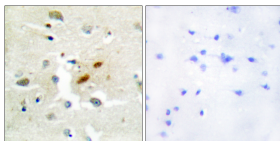
### Recommended Dilution

IHC: 1: 100 - 1: 300

ELISA: 1: 20000

Not yet tested in other applications.

### Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DNA Polymerase zeta Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year