

## Rabbit Anti-DNA polymerase delta antibody

SL7416R

Product Name:	DNA polymerase delta
Chinese Name:	DNA聚合酶δ 抗体
Alias:	DNA polymerase delta subunit 2; DNA polymerase delta subunit p50; DNA polymerase subunit delta 2; DNA polymerase subunit delta p50; DPOD2_HUMAN; POLD 2; POLD2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	51kDa 🗸 💙
<b>Cellular localization:</b>	The nucleus
Form:	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human DNA polymerase delta:101-200/469
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	DNA replication, recombination and repair, all of which are necessary for genomic stability, require the presence of exonucleases (1). 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

(2). These exonucleases include the family of DNA polymerases (3). DNA pol  $\alpha$ ,  $\beta$ , ?, and e are involved in DNA replication and repair (4). DNA pol? and DNA pol e are multisubunit enzymes, with DNA pol? consisting of two subunits p125, which interacts with the sliding DNA clamp protein PCNA, and p50 (5). The nuclear-encoded DNA pol ? is the only DNA polymerase required for the replication of the mitochondrial DNA (6). DNA pol  $\Omega$  is ubiquitously expressed in various tissues and mediates the cellular mechanism of damage-induced mutagenesis (7). DNA pol? is a DNA polymerasehelicase that binds ATP and is involved in the repair of interstrand crosslinks (8).

## Function:

The function of the small subunit is not yet clear.

Subcellular Location: Nucleus.

Similarity: Belongs to the DNA polymerase delta/II small subunit family. doiote

## SWISS: P49005

Gene ID: 5425

## Database links:

Entrez Gene: 281991Cow

Entrez Gene: 5425Human

Entrez Gene: 18972Mouse

Entrez Gene: 289758Rat

Omim: 600815Human

SwissProt: P49004Cow

SwissProt: P49005Human

SwissProt: O35654Mouse

SwissProt: Q6AXY4Rat

Unigene: 306791Human

Unigene: 35788Mouse

Unigene: 22989Rat





