SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-DNA polymerase delta/FITC Conjugated antibody

Catalog Number: SL7416R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-DNA polymerase delta/FITC
Immunogen:	KLH conjugated synthetic peptide derived from Human DNA polymerase delta
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Rabbit)
Background:	background: 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 α, β, ∂, 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 Ω is ubiquitously expressed in various tissues and mediates the cellular mechanism of damage-induced mutagenesis (7). DNA pol œ is a DNA polymerase-helicase that binds ATP and is involved in the repair of interstrand

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	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. **Database links:** **Entrez Gene:** 281991 Cow **Entrez Gene:** 5425 Human **Entrez Gene:** 18972 Mouse **Entrez Gene:** 289758 Rat Omim: 600815 Human **SwissProt:** P49004 Cow **SwissProt:** P49005 Human **SwissProt:** O35654 Mouse **SwissProt:** Q6AXY4 Rat **Unigene:** 306791 Human **Unigene:** 35788 Mouse **Unigene:** 22989 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.