



Rabbit Anti-DNA Ligase 1 antibody

SL6641R

Product Name:	DNA Ligase 1
Chinese Name:	DNA连接酶1抗体
Alias:	DNA ligase 1; DNA ligase I; Polydeoxyribonucleotide synthase [ATP] 1; DNL11_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	101kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DNA Ligase 1:701-800/919
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:	Eukaryotic DNA ligases are ATP-dependent enzymes that catalyse the joining of single and double-strand DNA breaks, which is an essential final step in DNA replication, recombination and repair. Four biochemically distinct DNA ligases, termed ligases I-IV, have been identified in mammalian cells. DNA ligase I is functionally homologous to the DNA ligase encoded by the Saccharomyces cerevisiae Cdc9 gene. The joining of Okazaki fragments during lagging strand DNA replication in mammalian cells is due to

DNA ligase I.

Function:

DNA ligase that seals nicks in double-stranded DNA during DNA replication, DNA recombination and DNA repair.

Subcellular Location:

Nucleus.

Similarity:

Belongs to the ATP-dependent DNA ligase family.

SWISS:

P18858

Gene ID:

3978

Database links:

[Entrez Gene: 3978](#)Human

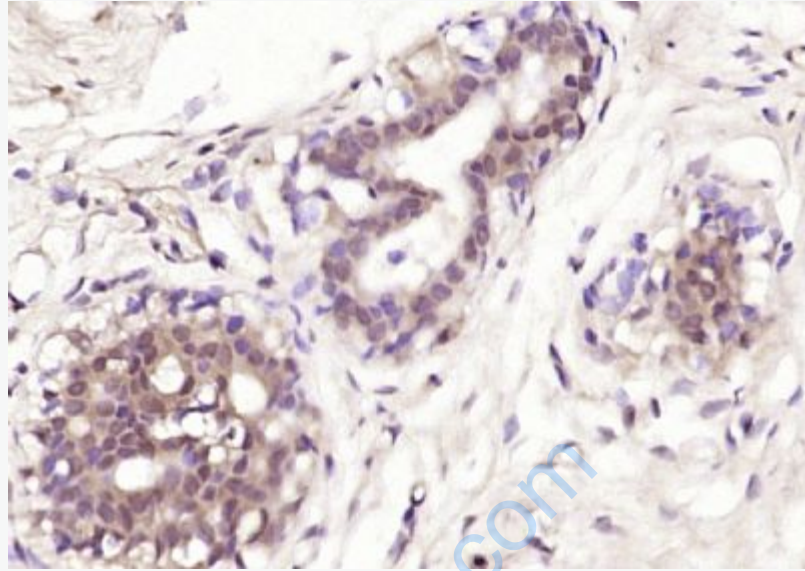
[Omid: 126391](#)Human

[SwissProt: P18858](#)Human

[Unigene: 1770](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DNA Ligase 1) Polyclonal Antibody, Unconjugated (SL6641R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.