

# Product datasheet for AP20546PU-M

## DNA Ligase I (LIG1) Rabbit Polyclonal Antibody

### **Product data:**

#### OriGene Technologies, Inc.

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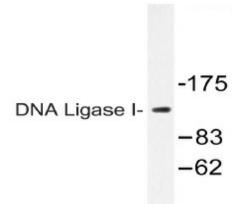
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of DNA Ligase I protein. (region surrounding Glu139)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified lg fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	102,125 kDa
Gene Name:	DNA ligase 1
Database Link:	<u>Entrez Gene 3978 Human</u> <u>P18858</u>



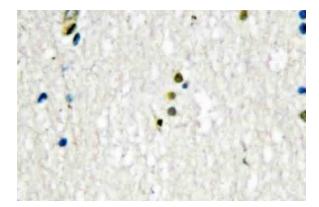
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	DNA Ligase I (LIG1) Rabbit Polyclonal Antibody – AP20546PU-M
Background:	Eukaryotic DNA ligases are ATP-dependent enzymes that catalyse the joining of single and double-strand DNA breaks, which is an essential final step in DNA replication, recombination 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. A combination of DNA polymerase epsilon, PCNA, replication factor C, replication protein A, and DNA ligase I is well-suited to the task of creating nucleotide excision repair patches.
Synonyms:	LIG1, LIG-1, DNA ligase 1, EC=6.5.1.1, DNA ligase l
Protein Families	Druggable Genome
Protein Pathway	<b>s:</b> Base excision repair, DNA replication, Mismatch repair, Nucleotide excision repair

# **Product images:**



Western blot (WB) analysis of DNA Ligase I antibody (Cat.-No.: [AP20546PU-N]) in extracts from HT-29 cells.



Immunohistochemistry (IHC) analyzes of DNA Ligase I antibody (Cat.-No.: [AP20546PU-N]) in paraffin-embedded human brain tissue.

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