

Product datasheet for AP20546PU-N

DNA Ligase I (LIG1) Rabbit Polyclonal Antibody

Product data:

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 Ig 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: Entrez Gene 3978 Human

P18858



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Background: Eukaryotic DNA ligases are ATP-dependent enzymes that catalyse the joining of single and

suited to the task of creating nucleotide excision repair patches.

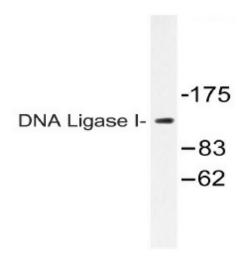
double-strand DNA breaks, which is an essential final step in DNA replication, recombination and repair. Four biochemically distinct DNA ligases, termed ligases I-IV, have been identified in mammalian cells. DNA ligase I is functionally homologous to the DNA ligase encoded by the Saccharomyces cerevisiae 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-

Synonyms: LIG1, LIG-1, DNA ligase 1, EC=6.5.1.1, DNA ligase 1

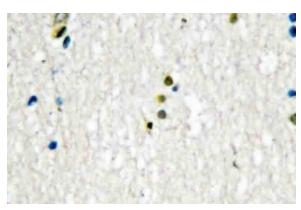
Protein Families: Druggable Genome

Protein Pathways: 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.