

DNA Ligase I (E139) polyclonal antibody

Catalog: BS2528

Host: Rabbit

Reactivity: Human

Background:

Eukaryotic DNA ligases are ATP-dependent enzymes that catalyze 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 130 kDa

Swiss-Prot:

P18858

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

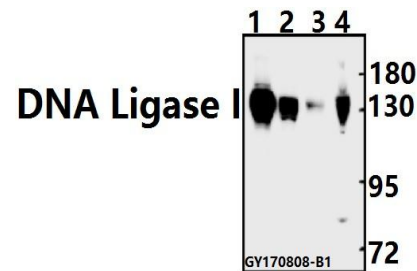
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

DNA Ligase I (E139) polyclonal antibody detects endogenous levels of DNA Ligase I protein.

DATA:



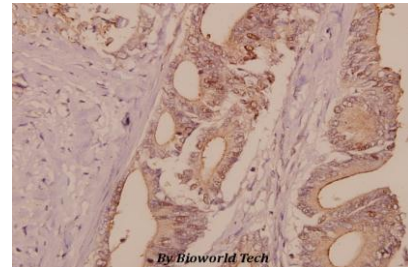
Western blot (WB) analysis of DNA Ligase I (E139) pAb at 1:500 dilution

Lane1:K562 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:Jurkat whole cell lysate(40ug)

Lane4:A549 whole cell lysate(10ug)



Immunohistochemistry (IHC) analyzes of DNA Ligase I (E139) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.

Note:

For research use only, not for use in diagnostic procedure.

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