DNA Ligase I (E139) polyclonal antibody

Catalog: BCP00660

Host: Rabbit

Reactivity: Human

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.

Product:

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

Molecular Weight:

~ 102 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 $4 \,^{\circ}{\rm C}$ short term. Aliquot and store at $-20 \,^{\circ}{\rm C}$ 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.