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## 36-2705: Anti-DNA Ligase 1 Monoclonal Antibody(Clone: 1A9)

Clonality: Monoclonal

Clone Name: 1A9

Application: WB.ELISA.IP

Reactivity: Human, Mouse, Rat

Gene: LIG1 Gene ID: 3978 **Uniprot ID:** P18858

DNA ligase 1; DNA ligase I; DNLI1 HUMAN; LIG 1; lig1; Ligase I DNA ATP dependent; **Alternative Name:** 

MGC117397; MGC130025; Polydeoxyribonucleotide synthase [ATP] 1

Mouse IgG1, kappa Isotype:

Immunogen Information: Full-length native cow LIG1 protein

## **Description**

DNA Ligase I maintains the major DNA Ligase activity in proliferating cells by joining Okazaki fragments during lagging strand DNA replication. Human DNA Ligase I also has an essential role in DNA repair pathways, where it catalyzes the formation of phosphodiester bonds between adjacent 5' phosphoryl and 3' hydroxy termini at single breaks in duplex DNA molecules. In addition, DNA Ligase I plays a role in sealing nicks during excision repair. Similar to other DNA ligases, DNA Ligase I is built around a common catalytic core. Increased levels of DNA Ligase I are found in human tumors, as compared to benign tissues, as well as in peripheral blood lymphocytes. Furthermore, DNA Ligase I antisense ODNs syndrome (BS). Individuals with BS either have decreased levels of abnormally thermolabile DNA Ligase I or possess a dimeric form of this enzyme.

## **Product Info**

Amount: 20 μg / 100 μg

200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS Content:

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody Storage condition:

is stable for 24 months. Non-hazardous.

## **Application Note**

Western Blot (1-2ug/ml); ELISA; Immunoprecipitation;