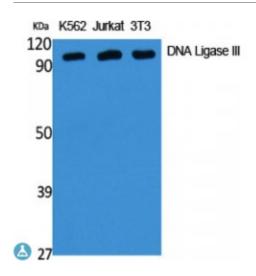


## **Anti-DNA Ligase III antibody**



**Description** Rabbit polyclonal to DNA Ligase III.

Model STJ92730

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, WB

Immunogen Synthesized peptide derived from human DNA Ligase III

Immunogen Region 110-190 aa, Internal

**Gene ID** <u>3980</u>

Gene Symbol <u>LIG3</u>

**Dilution range** WB 1:500-1:2000ELISA 1:10000

Specificity DNA Ligase III Polyclonal Antibody detects endogenous levels of DNA

Ligase III protein.

**Tissue Specificity** Testis, thymus, prostate and heart.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

**Protein Name** DNA ligase 3 DNA ligase III Polydeoxyribonucleotide synthase ATP 3

Molecular Weight 100 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:6600OMIM:600940</u>

Alternative Names DNA ligase 3 DNA ligase III Polydeoxyribonucleotide synthase ATP 3

**Function** Isoform 3 functions as heterodimer with DNA-repair protein XRCC1 in the

nucleus and can correct defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and

alkylating agents. Isoform 1 is targeted to mitochondria, where it functions as

DNA ligase in mitochondrial base-excision DNA repair .

**Sequence and Domain Family** The PARP-type zinc finger is required for DNA ligase activity.

Cellular Localization Isoform 1: Mitochondrion. Contains an N-terminal mitochondrial transit

peptide. Isoform 2: Mitochondrion. Contains an N-terminal mitochondrial transit peptide. Isoform 3: Nucleus. Lacks the N-terminal mitochondrial transit peptide. Isoform 4: Nucleus. Lacks the N-terminal mitochondrial transit

peptide.

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