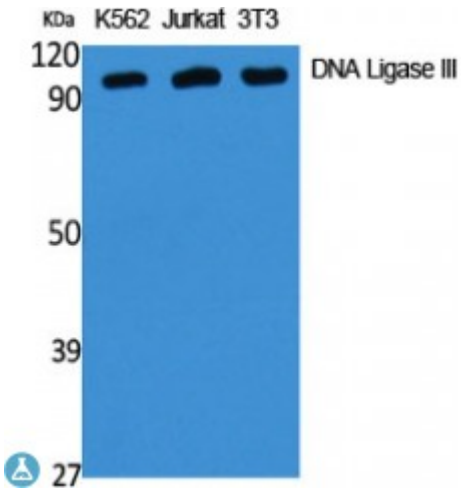
Anti-DNA Ligase III antibody



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	3980
Gene Symbol	LIG3
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	HGNC:6600OMIM:600940
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.