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DNA Ligase III Polyclonal Antibody

Catalog No	YP-Ab-00379
lsotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	LIG3
Protein Name	DNA ligase 3
Immunogen	Synthesized peptide derived from DNA Ligase III . at AA range: 110-190
Specificity	DNA Ligase III Polyclonal Antibody detects endogenous levels of DNA Ligase III protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	LIG3; DNA ligase 3; DNA ligase III; Polydeoxyribonucleotide synthase [ATP] 3
Observed Band	100kD
Cell Pathway	[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;
Tissue Specificity	Testis, thymus, prostate and heart.
Function	catalytic activity:ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) = AMP + diphosphate + (deoxyribonucleotide)(n+m).,cofactor:Magnesium.,function:Interacts with DNA-repair protein XRCC1 and can correct defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents.,online information:DNA ligase entry,similarity:Belongs to the ATP-dependent DNA ligase family.,similarity:Contains 1 BRCT domain.,similarity:Contains 1 PARP-type zinc finger.,tissue specificity:Testis, thymus, prostate and heart.,
Background	This gene is a member of the DNA ligase family. Each member of this family encodes a protein that catalyzes the joining of DNA ends but they each have a distinct role in DNA metabolism. The protein encoded by this gene is involved in



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excision repair and is located in both the mitochondria and nucleus, with translation initiation from the upstream start codon allowing for transport to the mitochondria and translation initiation from a downstream start codon allowing for transport to the nucleus. Additionally, alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

