



## Anti-LIG3 (aa 823-922) polyclonal antibody (DPAB-DC1852)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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 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.
<b>Immunogen</b>	LIG3 (NP_039269, 823 a.a. ~ 922 a.a) partial recombinant protein with GST tag. The sequence is TKSSPVKVGKRAADETLCQTKVLLDIFTGVRLYLPPSTPDFSRLRRYFVAFDGDGVQE FDMTSATHVLGSRDKNPAAQQVSPPEWIWACIRKRLVAPC
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### GENE INFORMATION

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<b>Gene Name</b>	<a href="#">LIG3 ligase III, DNA, ATP-dependent [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	LIG3
<b>Synonyms</b>	LIG3; ligase III, DNA, ATP-dependent; LIG2; DNA ligase 3; ligase II, DNA, ATP-dependent; polydeoxyribonucleotide synthase [ATP] 3;
<b>Entrez Gene ID</b>	<a href="#">3980</a>
<b>Protein Refseq</b>	<a href="#">NP_002302</a>
<b>UniProt ID</b>	<a href="#">E5KLB6</a>
<b>Chromosome Location</b>	17q11.2-q12
<b>Pathway</b>	BER complex; Base excision repair; Resolution of AP sites via the single-nucleotide replacement pathway.
<b>Function</b>	ATP binding; DNA binding; DNA ligase (ATP) activity; DNA ligase activity

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