



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

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

GENE INFORMATION

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