



Anti-LIG1 (aa 810-919) polyclonal antibody (DPAB-DC1851)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the ATP-dependent DNA ligase protein family. The encoded protein functions in DNA replication, recombination, and the base excision repair process. Mutations in this gene that lead to DNA ligase I deficiency result in immunodeficiency and increased sensitivity to DNA-damaging agents. Disruption of this gene may also be associated with a variety of cancers. Alternative splicing results in multiple transcript variants.
Immunogen	LIG1 (NP_000225, 810 a.a. ~ 919 a.a) partial recombinant protein with GST tag. The sequence is QSLKALVLSPRPRPYVRIDGAVIPDHWLDPASAVWEVKCADLSPIYPAARGLVDSDKGIS LRFPRFIRVREDKQPEQATTSAQVACLYRKQSQIQNQQGEDSGSDPEDTY
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	LIG1 ligase I, DNA, ATP-dependent [Homo sapiens (human)]
Official Symbol	LIG1
Synonyms	LIG1; ligase I, DNA, ATP-dependent; DNA ligase 1; polydeoxyribonucleotide synthase [ATP] 1;
Entrez Gene ID	3978
Protein Refseq	NP_000225
UniProt ID	P18858
Chromosome Location	19q13.2-q13.3
Pathway	Base Excision Repair; Cell Cycle; Chromosome Maintenance; DNA Replication
Function	ATP binding; DNA binding; DNA ligase (ATP) activity; DNA ligase activity
