



Human LIG1 blocking peptide (CDBP1749)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-LIG1/DNA ligase I antibody
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. [provided by RefSeq, Jan 2014]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	LIG1 ligase I, DNA, ATP-dependent [Homo sapiens]
Official Symbol	LIG1
Synonyms	LIG1; ligase I, DNA, ATP-dependent; DNA ligase 1; polydeoxyribonucleotide synthase [ATP] 1; MGC117397; MGC130025;

Entrez Gene ID	3978
mRNA Refseq	NM_000234
Protein Refseq	NP_000225
UniProt ID	P18858
Chromosome Location	19q13.2-q13.3
Pathway	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Repair, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA ligase (ATP) activity; DNA ligase activity; ligase activity; metal ion binding; nucleotide binding;