

Goat Anti-LIG1 / DNA ligase I Antibody
Peptide-affinity purified goat antibody
Catalog # AF1623a**Specification**

Goat Anti-LIG1 / DNA ligase I Antibody - Product Information

Application	WB
Primary Accession	P18858
Other Accession	NP_000225 , 3978 , 81513 (rat)
Reactivity	Human
Predicted	Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	101736

Goat Anti-LIG1 / DNA ligase I Antibody - Additional Information**Gene ID** 3978**Other Names**

DNA ligase 1, 6.5.1.1, DNA ligase I, Polydeoxyribonucleotide synthase [ATP] 1, LIG1

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-LIG1 / DNA ligase I Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-LIG1 / DNA ligase I Antibody - Protein Information**Name** LIG1**Function**

DNA ligase that seals nicks in double-stranded during DNA repair (PubMed:30395541). Also involved in DNA replication and DNA recombination.

Cellular Location

Nucleus.

Goat Anti-LIG1 / DNA ligase I Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-LIG1 / DNA ligase I Antibody - Images



AF1623a (0.1 µg/ml) staining of HeLa nuclear lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-LIG1 / DNA ligase I Antibody - Background

LIG1 encodes DNA ligase I, with functions in DNA replication and the base excision repair process. Mutations in LIG1 that lead to DNA ligase I deficiency result in immunodeficiency and increased sensitivity to DNA-damaging agents.

Goat Anti-LIG1 / DNA ligase I Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

XPC genetic polymorphisms correlate with the response to imatinib treatment in patients with chronic phase chronic myeloid leukemia. Guillem VM, et al. Am J Hematol, 2010 Jul. PMID 20575039.

Polymorphisms in the base excision repair pathway and graft-versus-host disease. Arora M, et al. Leukemia, 2010 Aug. PMID 20574454.

Comprehensive screen of genetic variation in DNA repair pathway genes and postmenopausal breast cancer risk. Monsees GM, et al. Breast Cancer Res Treat, 2010 May 23. PMID 20496165.

A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.