



DNA Ligase I Monoclonal Antibody

Catalog No	YP-mAb-00378
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	LIG1
Immunogen	The antiserum was produced against synthesized peptide derived from human DNL1. AA range:111-160
Specificity	DNA Ligase I Monoclonal Antibody detects endogenous levels of DNA Ligase I protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DNA ligase 1;DNA Ligase I;LIG1;ligase I;DNA;ATP dependent; Polydeoxyribonucleotide synthase [ATP] 1
Observed Band	133kD
Calculated Molecular Weight	133kD
Cell Pathway	Nucleus.
Tissue Specificity	Brain,Epithelium,Eye,PCR rescued clones,T lymphoblast,
Function	catalytic activity:ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) = AMP + diphosphate + (deoxyribonucleotide)(n+m).,cofactor:Magnesium., disease:Defects in LIG1 seem to cause immunodeficiencies and cellular hypersensitivity to DNA-damaging agents.,function:DNA ligase that seals nicks in double-stranded DNA during DNA replication, DNA recombination and DNA repair.,online information:DNA ligase entry,online information:LIG1 mutation db, similarity:Belongs to the ATP-dependent DNA ligase family.,



Background

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],

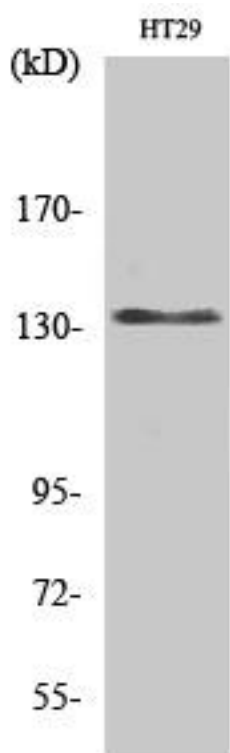
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using DNA Ligase I Monoclonal Antibody