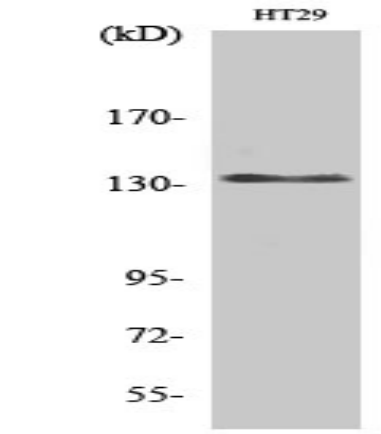
Best Tools for immunology Research

DNA Ligase I Polyclonal Antibody

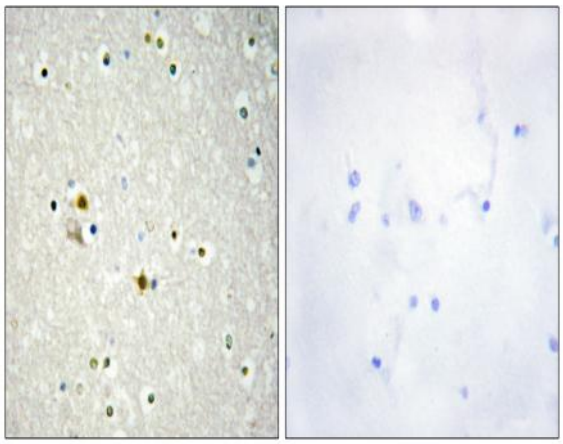
Catalog No :	YT1364
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	DNA Ligase I
Fields :	>>DNA replication;>>Base excision repair;>>Nucleotide excision repair;>>Mismatch repair
Gene Name :	LIG1
Protein Name :	DNA ligase 1
Human Gene Id :	3978
Human Swiss Prot No :	P18858
Mouse Swiss Prot No :	P37913
Immunogen :	The antiserum was produced against synthesized peptide derived from human DNL1. AA range:111-160
Specificity :	DNA Ligase I Polyclonal 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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	133kD
Cell Pathway :	DNA replication;Base excision repair;Nucleotide excision repair;Mismatch repair;
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],
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.,
Subcellular Location :	Nucleus.
Expression :	Brain,Epithelium,Eye,PCR rescued clones,T lymphoblast,
Sort :	5168
No4 :	1

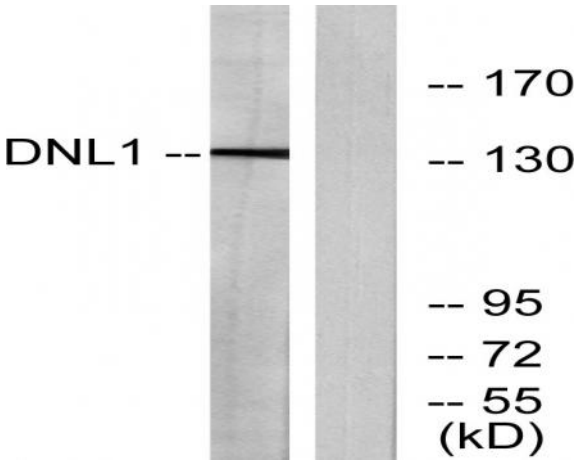
Products Images



Western Blot analysis of various cells using DNA Ligase I Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DNL1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 cells, using DNL1 Antibody. The lane on the right is blocked with the synthesized peptide.