



DNA Ligase III rabbit pAb

Cat No.:ES2182

For research use only

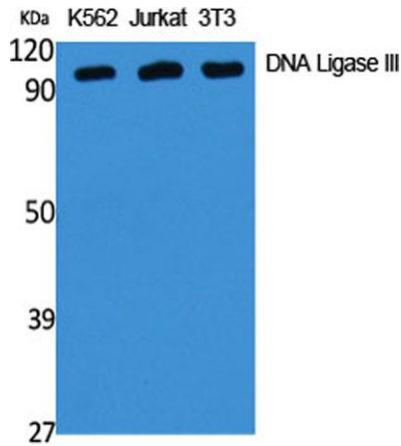
Overview

Product Name	DNA Ligase III rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	Synthesized peptide derived from DNA Ligase III . at AA range: 110-190
Specificity	DNA Ligase III Polyclonal Antibody detects endogenous levels of DNA Ligase III protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	DNA ligase 3
Gene Name	LIG3
Cellular localization	[Isoform 1]: Mitochondrion . Contains an N-terminal mitochondrial transit peptide. .; [Isoform 2]: Mitochondrion . Contains an N-terminal mitochondrial transit peptide. .; [Isoform 3]: Nucleus . Lacks the N-terminal mitochondrial transit peptide. .; [Isof
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	100kD
Human Gene ID	3980
Human Swiss-Prot Number	P49916
Alternative Names	LIG3; DNA ligase 3; DNA ligase III; Polydeoxyribonucleotide synthase [ATP] 3
Background	This gene is a member of the DNA ligase family. Each member of this family encodes a protein that

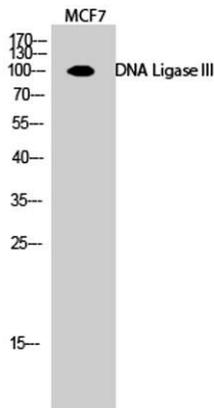




catalyzes the joining of DNA ends but they each have a distinct role in DNA metabolism. The protein encoded by this gene is involved in excision repair and is located in both the mitochondria and nucleus, with translation initiation from the upstream start codon allowing for transport to the mitochondria and translation initiation from a downstream start codon allowing for transport to the nucleus. Additionally, alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],



Western Blot analysis of various cells using DNA Ligase III Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western Blot analysis of MCF7 cells using DNA Ligase III Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).

