

## LIG4 Antibody

Catalog No: #32411

Package Size: #32411-1 50ul #32411-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

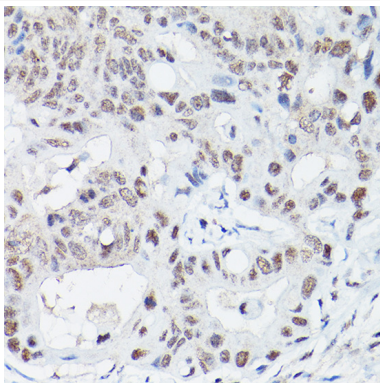
## Description

Product Name	LIG4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total LIG4 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human DNA Ligase IV (NP_002303.2).
Target Name	LIG4
Other Names	LIG4;LIG4S
Accession No.	Uniprot:P49917GenelD:3981
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GenelD	3981
SDS-PAGE MW	110KDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

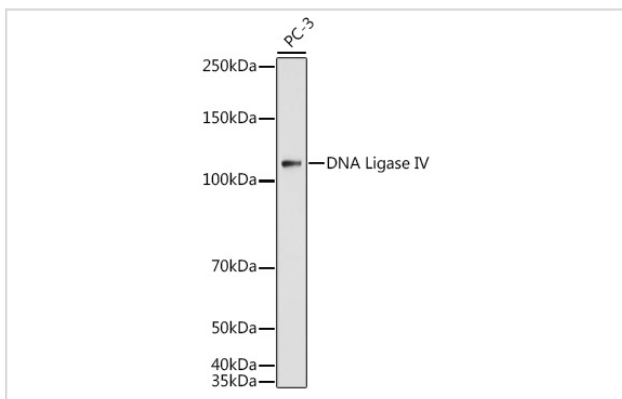
## Application Details

WB □ 1:500 - 1:2000 IHC □ 1:50 - 1:200

## Images



Immunohistochemistry of paraffin-embedded human colon carcinoma using DNA Ligase IV Rabbit pAb.



Western blot analysis of extracts of PC-3 cells, using DNA Ligase IV antibody.

## Background

The protein encoded by this gene is a DNA ligase that joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. This protein is essential for V(D)J recombination and DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms a complex with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (DNA-PK). Both XRCC4 and DNA-PK are known to be required for NHEJ. The crystal structure of the complex formed by this protein and XRCC4 has been resolved. Defects in this gene are the cause of LIG4 syndrome. Alternatively spliced transcript variants encoding the same protein have been observed.

Note: This product is for in vitro research use only