

Datasheet for ABIN2857063

**anti-LIG4 antibody**[Go to Product page](#)**1** Image**2** Publications

## Overview

Quantity:	100 µL
Target:	LIG4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIG4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human DNA ligase IV. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit polyclonal antibody to DNA ligase IV (ligase IV, DNA, ATP-dependent) DNA ligase IV antibody [N2C2], Internal
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

## Target Details

Target:	LIG4
---------	------

## Target Details

Alternative Name:	DNA ligase 4 ( <a href="#">LIG4 Products</a> )
Background:	<p>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.</p> <p>Cellular Localization: Nucleus</p>
Molecular Weight:	104 kDa
Gene ID:	3981
UniProt:	<a href="#">P49917</a>
Pathways:	<a href="#">DNA Damage Repair</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Application Notes:	WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: Molt-4 Validation: KO/KD
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.65 mg/mL
Buffer:	0.1M Tris-Glycine ( pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

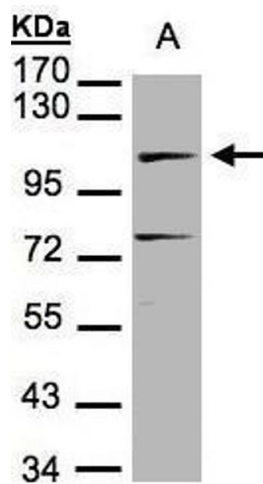
## Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Publications

Product cited in:	Tang, Lee, Kim, Bishop, Rodgers: "siRNA-knockdown of ADAMTS-13 modulates endothelial cell angiogenesis." in: <b>Microvascular research</b> , Vol. 113, pp. 65-70, (2018) ( <a href="#">PubMed</a> ).
-------------------	--

## Images



### Western Blotting

**Image 1.** WB Image Sample(30 µg of whole cell lysate)  
A:MOLT4, 7.5% SDS PAGE antibody diluted at 1:1000