BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-DNA Ligase I/LIG1 Antibody Picoband®

Catalog Number: A02380-3

About LIG1

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.

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Overview

Product Name	Anti-DNA Ligase I/LIG1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DNA Ligase I/LIG1 Antibody Picoband® catalog # A02380-3. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P18858

Technical Details

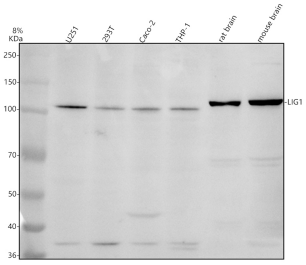
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human DNA Ligase I/LIG1.(VFATSLDTKDIEQIAE).
Form	Lyophilized

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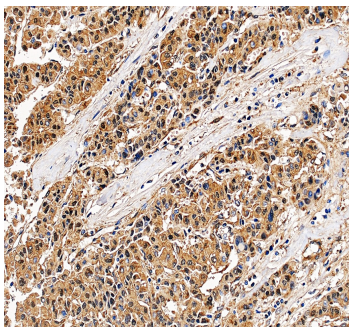
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human

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Anti-DNA Ligase I/LIG1 Antibody Picoband® (A02380-3) Images



Western blot analysis of DNA Ligase I/LIG1 using anti-DNA Ligase I/LIG1 antibody (A02380-3). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U251 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human THP-1 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DNA Ligase I/LIG1 antigen affinity purified polyclonal antibody (A02380-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for DNA Ligase I/LIG1 at approximately 102 kDa. The expected band size for DNA Ligase I/LIG1 is at 102 kDa.



IHC analysis of DNA Ligase I/LIG1 using anti-DNA Ligase I/LIG1 antibody (A02380-3). DNA Ligase I/LIG1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DNA Ligase I/LIG1 Antibody (A02380-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

For Research Use Only. Not for use in diagnostic procedures.