BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-DNA Polymerase iota/POLI Antibody Picoband®

Catalog Number: A01376-1

About POLI

DNA polymerase iota is an enzyme that in humans is encoded by the POLI gene. The protein encoded by this gene is an error-prone DNA polymerase involved in DNA repair. The encoded protein promotes DNA synthesis across lesions in the template DNA, which other polymerases cannot do. The encoded polymerase inserts deoxynucleotides across lesions and then relies on DNA polymerase zeta to extend the nascent DNA strand to bypass the lesion.

Overview

Product Name	Anti-DNA Polymerase iota/POLI Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DNA Polymerase iota/POLI Antibody Picoband® catalog # A01376-1. Tested in WB 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	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UNA4

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human DNA Polymerase iota, which shares 70.6% and 76.5% amino acid (aa) sequence identity with mouse and rat DNA Polymerase iota, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
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, 0.1-0.5ug/ml

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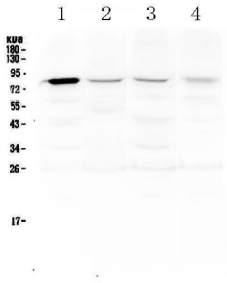
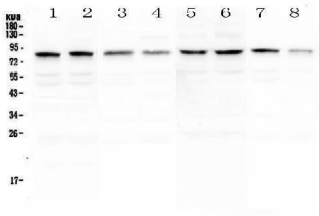
Anti-DNA Polymerase iota/POLI Antibody Picoband® (A01376-1) Images



Western blot analysis of DNA Polymerase iota using anti-DNA Polymerase iota antibody (A01376-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates,Lane 3: human A549 whole cell lysates, Lane 4: human SK-OV-3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 Polymerase iota antigen affinity purified polyclonal antibody (Catalog # A01376-1) 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DNA Polymerase iota at approximately 83KD. The expected band size for DNA Polymerase iota is at 83KD.



Western blot analysis of DNA Polymerase iota using anti-DNA Polymerase iota antibody (A01376-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat testis tissue lysates,Lane 2: rat testis tissue lysates,Lane 3: rat kidney tissue lysates,Lane 4: rat stomach tissue lysates,Lane 5: mouse testis tissue lysates,Lane 6: mouse testis tissue lysates,Lane 7: mouse kidney tissue lysates,Lane 8: mouse stomach tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 Polymerase iota antigen affinity purified polyclonal antibody (Catalog # A01376-1) 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DNA Polymerase iota at approximately 83KD. The expected band size for DNA Polymerase iota is at 83KD.

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