

Rabbit DNA Polymerase iota Polyclonal Antibody | anti-POLI antibody

Anti-DNA Polymerase iota Picoband antibody

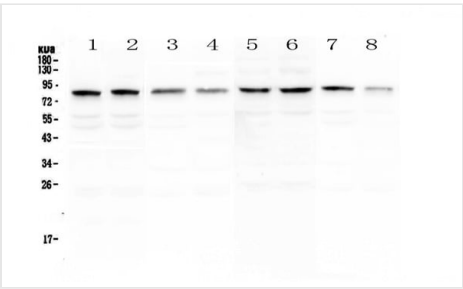
CATALOG # AAA124644	HOST Rabbit	REACTIVITY Human, Mouse, Rat No cross reactivity with other proteins.	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

DNA Polymerase iota; Polyclonal Antibody; Anti-DNA Polymerase iota Picoband antibody; DNA polymerase iota; Eta2; RAD30 homolog B; POLI; RAD30B; anti-POLI antibody

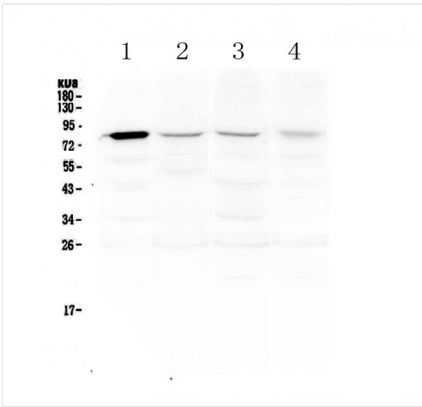
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	740
Applicable Applications for anti-POLI antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human DNA Polymerase iota (DIDPQVFYELPEAVQKELLAEWKRAGSDFHIGHK).
Subcellular Localization	Nucleus.
Tissue Specificity	Ubiquitous. Highly expressed in testis.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 2. Western blot analysis of DNA Polymerase iota using anti-DNA Polymerase iota antibody (AAA124644). 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 at 0.5ug/mL overnight at 4 degree 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 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.



WB (Western Blot)

Figure 1. Western blot analysis of DNA Polymerase iota using anti-DNA Polymerase iota antibody (AAA124644). 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 at 0.5ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-POLI antibody	Description: 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. Protein Function: Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	154350220
NCBI GeneID	11201
NCBI Accession #	NP_009126.2
NCBI GenBank Nucleotide #	NM_007195.2
UniProt Accession #	Q9UNA4; Q8N590; Q9H0S1; Q9NYH6
Molecular Weight	83,006 Da
NCBI Official Full Name	DNA polymerase iota isoform a (long)
NCBI Official Synonym Full Names	DNA polymerase iota
NCBI Official Symbol	POLI

NCBI Official Synonym Symbols	eta2; RAD30B; RAD30B
NCBI Protein Information	DNA polymerase iota
UniProt Protein Name	DNA polymerase iota
UniProt Gene Name	POLI
UniProt Synonym Gene Names	RAD30B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dna-polymerase-iota-antibody-western-blot-elisa/124644>