

Rabbit anti-Human POLA2 Polyclonal Antibody | anti-POLA2 antibody

Anti-POLA2 Antibody Picoband

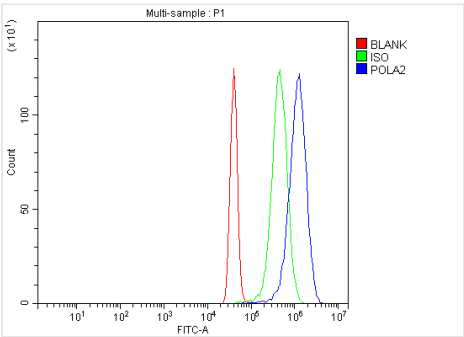
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126519	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

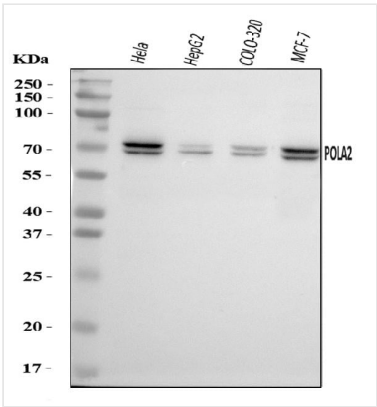
POLA2; Polyclonal Antibody; Anti-POLA2 Antibody Picoband; anti-POLA2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-POLA2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human POLA2 recombinant protein (Position: N267-P579).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U251 cells using anti-POLA2 antibody (AAA126519).Overlay histogram showing U251 cells stained with AAA126519 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-POLA2 Antibody (AAA126519, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of POLA2 using anti-POLA2 antibody (AAA126519).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 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human COLO320 whole cell lysates,Lane 4: human MCF-7 whole cell 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-POLA2 antigen affinity purified polyclonal antibody (#AAA126519) at 0.5 ug/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 1:5000 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 POLA2 at approximately 70 kDa. The expected band size for POLA2 is at 66 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-POLA2 antibody	DNA polymerase alpha subunit 2 is an enzyme that in humans is encoded by the POLA2 gene. POLA2 may play an essential role at the early stage of chromosomal DNA replication by coupling the polymerase alpha/primase complex to the cellular replication machinery (By similarity).
Product Categories/Family for anti-POLA2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	90110415
NCBI GeneID	23649
UniProt Accession #	Q14181; Q9BPV3; B4DNB4
Molecular Weight	598
NCBI Official Full Name	DNA polymerase alpha subunit B
NCBI Official Synonym Full Names	polymerase (DNA directed), alpha 2, accessory subunit
NCBI Official Symbol	POLA2
NCBI Protein Information	DNA polymerase alpha subunit B; DNA polymerase alpha 70 kDa subunit; polymerase (DNA-directed), alpha (70kD); polymerase (DNA directed), alpha 2 (70kD subunit)
UniProt Protein Name	DNA polymerase alpha subunit B
UniProt Gene Name	POLA2
UniProt Entry Name	DPOA2_HUMAN

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://stage.aaabiotech.com/polyclonal/pola2-antibody-western-blot-flow-cytometry-elisa/126519>