



Datasheet for ABIN6243170  
**anti-POLA1 antibody (AA 1-33)**



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1 Image

Overview

Quantity:	200 µL
Target:	POLA1
Binding Specificity:	AA 1-33
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLA1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This POLA1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1-33 amino acids from the human region of human POLA1.
Clone:	RB57636
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	POLA1
Alternative Name:	POLA1 ( <a href="#">POLA1 Products</a> )

## Target Details

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**Background:** Plays an essential role in the initiation of DNA replication. During the S phase of the cell cycle, the DNA polymerase alpha complex (composed of a catalytic subunit POLA1/p180, a regulatory subunit POLA2/p70 and two primase subunits PRIM1/p49 and PRIM2/p58) is recruited to DNA at the replicative forks via direct interactions with MCM10 and WDHD1. The primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising short RNA primers on both leading and lagging strands. These primers are initially extended by the polymerase alpha catalytic subunit and subsequently transferred to polymerase delta and polymerase epsilon for processive synthesis on the lagging and leading strand, respectively. The reason this transfer occurs is because the polymerase alpha has limited processivity and lacks intrinsic 3' exonuclease activity for proofreading error, and therefore is not well suited for replicating long complexes.

**Molecular Weight:** 165913

**UniProt:** [P09884](#)

**Pathways:** [SARS-CoV-2 Protein Interactome](#)

## Application Details

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**Application Notes:** WB: 1:2000

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

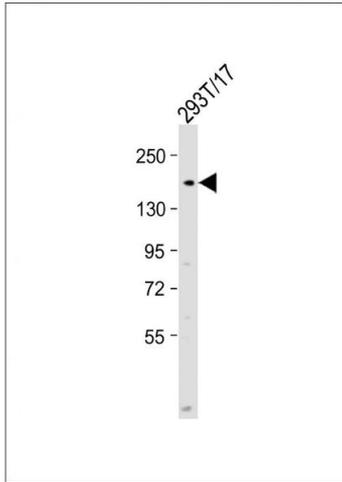
**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C, -20 °C

**Expiry Date:** 6 months



### Western Blotting

**Image 1.** Anti-POLA1 Antibody (N-Term) at 1:2000 dilution + 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 166 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.