

# POLE3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7316a

## Product Information

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<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">Q9NRF9</a>
<b>Other Accession</b>	<a href="#">Q642A5</a> , <a href="#">Q9JKP7</a> , <a href="#">Q3SZN5</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	16860
<b>Antigen Region</b>	5-34

## Additional Information

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<b>Gene ID</b>	54107
<b>Other Names</b>	DNA polymerase epsilon subunit 3, Arsenic-transactivated protein, AsTP, Chromatin accessibility complex 17 kDa protein, CHRAC-17, HuCHRAC17, DNA polymerase II subunit 3, DNA polymerase epsilon subunit p17, POLE3, CHRAC17
<b>Target/Specificity</b>	This POLE3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-34 amino acids from the N-terminal region of human POLE3.
<b>Dilution</b>	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	POLE3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	POLE3
<b>Synonyms</b>	CHRAC17

<b>Function</b>	Accessory component of the DNA polymerase epsilon complex (PubMed: <a href="#">10801849</a> ). Participates in DNA repair and in chromosomal DNA replication (By similarity). Forms a complex with CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1 (PubMed: <a href="#">10801849</a> ). Does not enhance nucleosome sliding activity of the ACF-5 ISWI chromatin remodeling complex (PubMed: <a href="#">14759371</a> ).
<b>Cellular Location</b>	Nucleus.
<b>Tissue Location</b>	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

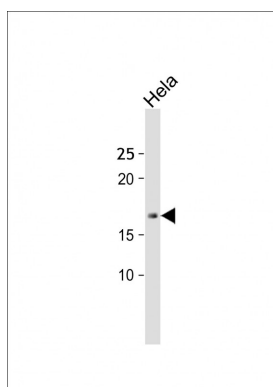
## Background

POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging.

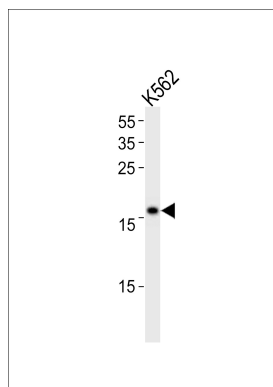
## References

Bolognese,F., Imbriano,C. Nucleic Acids Res. 28 (19), 3830-3838 (2000)  
 Li,Y., Pursell,Z.F. J. Biol. Chem. 275 (30), 23247-23252 (2000)

## Images

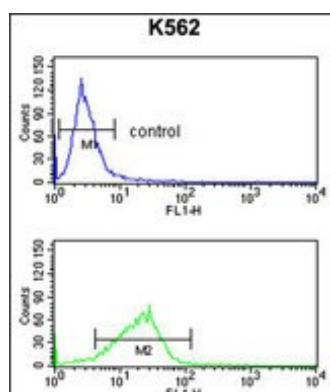


All lanes: Anti-POLE3 Antibody (N-term) at 1:250 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 17 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



POLE3 Antibody (N-term) (Cat. #AP7316a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the POLE3 antibody detected the POLE3 protein (arrow).

POLE3 Antibody (N-term) (Cat. #AP7316a) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.