

# Anti-POLK / DNA Polymerase Kappa Antibody

Rabbit Anti Human Polyclonal Antibody  
Catalog # ALS18344

## Product Information

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<b>Application</b>	WB, IHC-P, IF
<b>Primary Accession</b>	<a href="#">Q9UBT6</a>
<b>Predicted</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	98809

## Additional Information

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<b>Gene ID</b>	51426
<b>Alias Symbol</b>	POLK
<b>Other Names</b>	POLK, DINP, DNA polymerase kappa, DINB1, DINB protein
<b>Target/Specificity</b>	Human POLK / DNA Polymerase Kappa
<b>Reconstitution &amp; Storage</b>	Affinity purified
<b>Precautions</b>	Anti-POLK / DNA Polymerase Kappa Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	POLK
<b>Synonyms</b>	DINB1
<b>Function</b>	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. Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have lyase activity.
<b>Cellular Location</b>	Nucleus. Note=Detected throughout the nucleus and at replication foci (PubMed:12414988). Recruited to DNA damage sites in response to ultraviolet irradiation: N6-methyladenosine (m6A)- containing mRNAs accumulate in the vicinity of DNA damage sites and their presence is required to recruit POLK (PubMed:28297716)

**Tissue Location**

Detected at low levels in testis, spleen, prostate and ovary. Detected at very low levels in kidney, colon, brain, heart, liver, lung, placenta, pancreas and peripheral blood leukocytes

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