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Anti-POLK / DNA Polymerase Kappa Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18344

Specification

Anti-POLK / DNA Polymerase Kappa Antibody - Product Information

Application	**WB, IHC-P, IF**
Primary Accession	Q9UBT6
Predicted	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**98809**

Anti-POLK / DNA Polymerase Kappa Antibody - Additional Information

Gene ID 51426

Alias Symbol **POLK**
Other Names
POLK, DINP, DNA polymerase kappa, DINB1, DINB protein

Target/Specificity
Human POLK / DNA Polymerase Kappa

Reconstitution & Storage
Affinity purified

Precautions
Anti-POLK / DNA Polymerase Kappa Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-POLK / DNA Polymerase Kappa Antibody - Protein Information

Name POLK

Synonyms DINB1

Function
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.

Cellular Location
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

Anti-POLK / DNA Polymerase Kappa Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-POLK / DNA Polymerase Kappa Antibody - Images