10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-POLK / DNA Polymerase Kappa Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18344

Product Information

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

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.

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

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