

## Product datasheet for **TA319484**

### POLK Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:2,000 - 1:10,000, WB: 1:500 - 1:3,000
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	This affinity-purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 817-830 of Human POLK (polymerase (DNA directed) kappa).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	polymerase (DNA) kappa
Database Link:	<a href="#">NP_057302</a> <a href="#">Entrez Gene 51426 Human</a> <a href="#">Q9UBT6</a>
Synonyms:	DINB1; DINP; POLQ
Note:	POLK (also known as DNA polymerase kappa, DINB protein and DINP) is involved in DNA repair. POLK 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. POLK lacks 3'-5' proofreading exonuclease activity. POLK is a nuclear protein that binds to REV1L and PCNA. POLK is detected throughout the nucleus and at replication foci. Multiple alternative splice variants have been detected for this protein. POLK is found at low levels in testis, spleen, prostate and ovary and at very low levels in kidney, colon, brain, heart, liver, lung, placenta, pancreas and peripheral blood leukocytes.



[View online »](#)

Protein Families: Druggable Genome

### Product images:



WB using Anti-POLK antibody shows detection of a band ~98 kDa corresponding to human POLK (arrowhead). Approximately 35 ug of a HeLa whole cell lysate was separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,000. Reaction occurred overnight at 4? followed by washes and reaction with a 1:20,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG [H&L] for 45 min at room temperature.