



Anti-POLK (full length) polyclonal antibody (DPAB-DC2169)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	External and internal DNA-damaging agents continually threaten the integrity of genetic material in cells. Although a variety of repair mechanisms exist to remove the resulting lesions, some lesions escape repair and block the replication machinery. Members of the Y family of DNA polymerases, such as POLK, permit the continuity of the replication fork by allowing replication through such DNA lesions. Each Y family polymerase has a unique DNA-damage bypass and fidelity profile. POLK is specialized for the extension step of lesion bypass (summary by Lone et al., 2007 [PubMed 17317631]).[supplied by OMIM, Jan 2010]
Immunogen	POLK (AAH50718, 1 a.a. ~ 472 a.a) full-length recombinant protein with GST tag. The sequence is MDSTKEKCDSYKDDLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRYFGNELKKEKQV NQRIENMMQQAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYAAVEMRDN PELKDKPIAVGSMMLSTSNIYHARRFGVRAAMPGFIAKRLCPQLIIVPPNFDKYRAVSKE VKEILADYDPNFMAMSLDEAYLNITKHLEERQNWPEDKRRYFIKMGSSVENDNPGKEVKNK LSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQILQNSVVFGTSAQEVVKEIRFR IEQKTTLTASAGIAPNTMLAKVCSDKNKPNGQYQILPNRQAVMDFIKDLPIRKVSGIGKV TEKMLKALGIITCTELYQQRALLSLLFSETSWHYFLHISLGLGS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	POLK polymerase (DNA directed) kappa [Homo sapiens (human)]
Official Symbol	POLK
Synonyms	POLK; polymerase (DNA directed) kappa; DINP; POLQ; DINB1; DNA polymerase kappa;
Entrez Gene ID	51426
Protein Refseq	NP_057302
UniProt ID	A0A024RAP4
Chromosome Location	5q13
Pathway	Fanconi anemia pathway.
Function	DNA-directed DNA polymerase activity; damaged DNA binding; metal ion binding;