

## POLK

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**98kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human POLK

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

DINP; POLQ; DINB1;

**Catalog #:**A6122

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**51426

**Isotype:**IgG

**Swiss Prot:**Q9UBT6

**Purity:**Affinity purification

For research use only.

**Background:**

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)

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