

POLK antibody

Catalog No: #38720

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Description

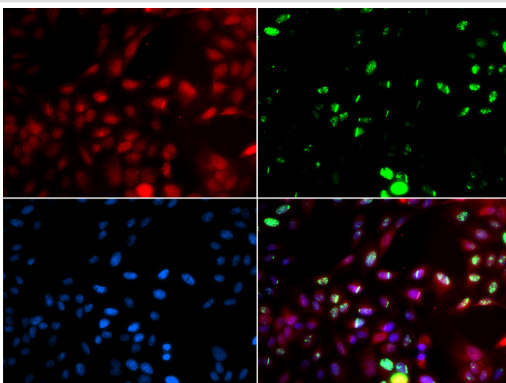
Product Name	POLK antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total POLK antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human POLK.
Target Name	POLK
Other Names	DINP; POLQ; DINB1;
Accession No.	Swiss-Prot#: Q9UBT6NCBI Gene ID: 51426
SDS-PAGE MW	98kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

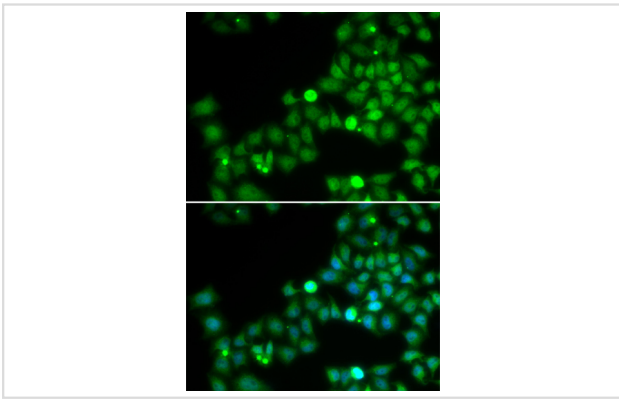
Western blotting: □ 1:500 - 1:2000

Immunofluorescence: □ 1:50 - 1:200

Images



Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using POLK antibody. Green GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.



Immunofluorescence analysis of U2OS cell using POLK antibody. Blue: DAPI for nuclear staining.

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)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.