

POLD3 Rabbit pAb

Catalog No.: A7243

1 Publications

Basic Information

Observed MW

51kDa

Calculated MW

51kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse

Background

This gene encodes the 66-kDa subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The encoded protein plays a role in regulating the activity of DNA polymerase delta through interactions with other subunits and the processivity cofactor proliferating cell nuclear antigen (PCNA). Alternatively spliced transcript variants have been observed for this gene.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:100
IHC-P	1:100 - 1:500

Immunogen Information

Gene ID

10714

Swiss Prot

Q15054

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 197-466 of human POLD3 (NP_006582.1).

Synonyms

P66; P68; PPP1R128; POLD3

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

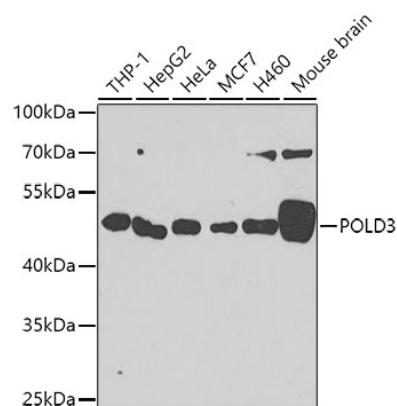
Affinity purification

Storage

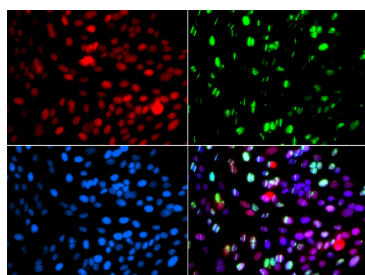
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

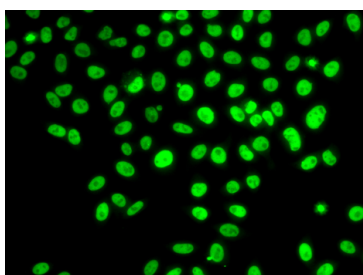
Validation Data



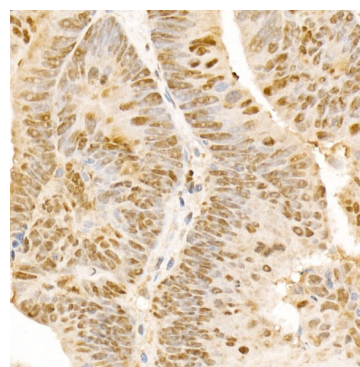
Western blot analysis of various lysates using POLD3 Rabbit pAb (A7243) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 60s.



Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using POLD3 Rabbit pAb (A7243). Green□GFP-RNF168 fusion protein expression for DNA damage marker. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. 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 cells using POLD3 Rabbit pAb (A7243). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using POLD3 Rabbit pAb (A7243) at dilution of 1:300 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.