

Product Name: KD-Validated POLD1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01313**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 123.6kDa

Antigen Information

Gene Name	POLD1 POLD1; DNA Polymerase Delta 1, Catalytic Subunit; CDC2; POLD; Polymerase (DNA) Delta 1, Catalytic Subunit; DNA Polymerase Delta Catalytic Subunit; DNA
Alternative Names	Polymerase Subunit Delta P125; 3'-5' Exodeoxyribonuclease; EC 2.7.7.7; Polymerase (DNA Directed), Delta 1, Catalytic Subunit (125kD); Polymerase (DNA Directed), Delta 1, Catalytic Subunit 125kDa; CDC2 Homolog (S. Cerevisiae); CDC2 Homolog; EC 3.1.11.-; CRCS10; MDPL
Gene ID	5424.0
SwissProt ID	P28340
Immunogen	A synthesized peptide derived from human POLD1

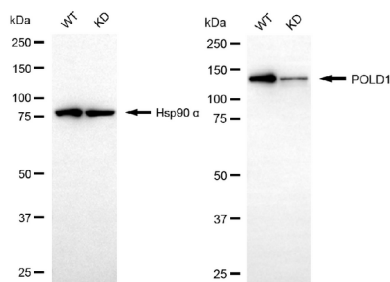
Background

This gene encodes the 125-kDa catalytic 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. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 6. [provided by RefSeq, Mar 2012]

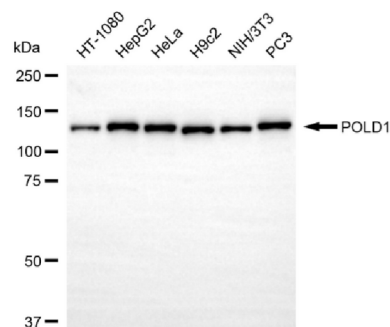
Research Area

Epigenetics and Nuclear Signaling

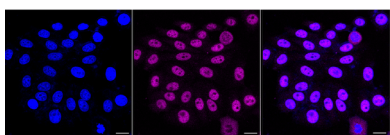
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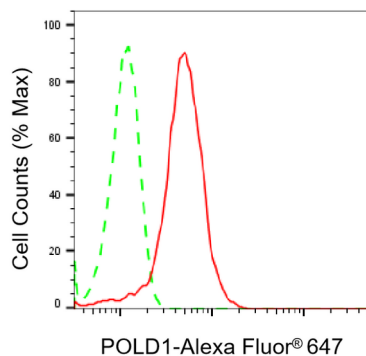
Western blotting analysis using POLD1 antibody (KVA01313). POLD1 expression in wild-type (WT) and POLD1 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with POLD1 antibody (KVA01313, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using POLD1 antibody (KVA01313). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with POLD1 antibody (KVA01313, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with POLD1 antibody (KVA01313, 1:1,000). Nuclei were stained blue with DAPI; POLD1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of POLD1 expression in HepG2 cells using POLD1 antibody (KVA01313, 1:2,000). Green, isotype control; red, POLD1.