



# DNA pol $\delta$ 3 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-01658
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	POLD3
<b>Protein Name</b>	DNA polymerase delta subunit 3
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human POLD3. AA range:411-460
<b>Specificity</b>	DNA pol $\delta$ 3 Polyclonal Antibody detects endogenous levels of DNA pol $\delta$ 3 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq$ 90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	POLD3; KIAA0039; DNA polymerase delta subunit 3; DNA polymerase delta subunit p66
<b>Observed Band</b>	51kD
<b>Cell Pathway</b>	Cytoplasm . Nucleus . Partially colocalizes with PCNA and POLD1 at S phase replication sites (PubMed:11595739). Recruited to DNA damage sites within 2 hours following UV irradiation (PubMed:20227374, PubMed:22801543). .
<b>Tissue Specificity</b>	Bone marrow,Brain,Duodenum,Embryonic kidney,Epithelium,Lymp
<b>Function</b>	function:Required for optimal DNA polymerase delta activity.,subunit:Heterotetramer composed of subunits of 125 kDa, 50 kDa, 66 kDa and 12 kDa. Interacts with POLD2. Interacts with PCNA.,
<b>Background</b>	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. [provided by RefSeq, Mar 2012],



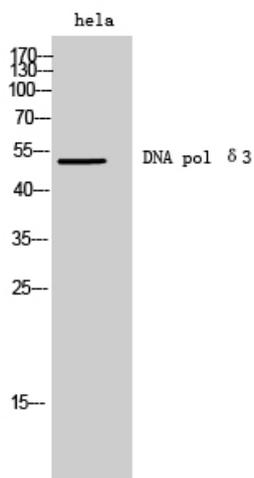
**matters needing attention**

Avoid repeated freezing and thawing!

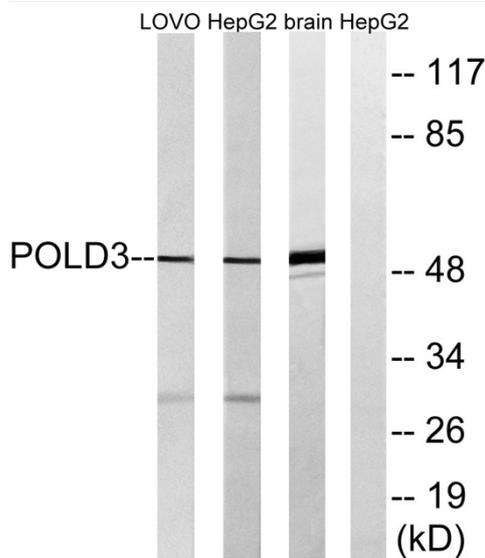
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of heLa cells using DNA pol  $\delta 3$  Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of lysates from LOVO, HepG2, and mouse brain cells, using POLD3 Antibody. The lane on the right is blocked with the synthesized peptide.