



# DNA pol $\delta$ 3 Polyclonal Antibody

<b>Catalog No</b>	BYab-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

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cell nuclear antigen (PCNA). Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Mar 2012],

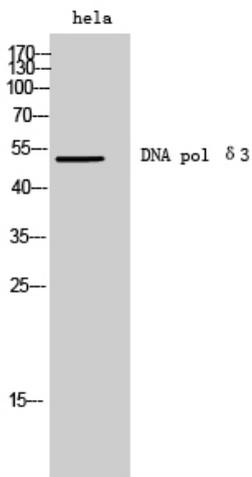
**matters needing attention**

Avoid repeated freezing and thawing!

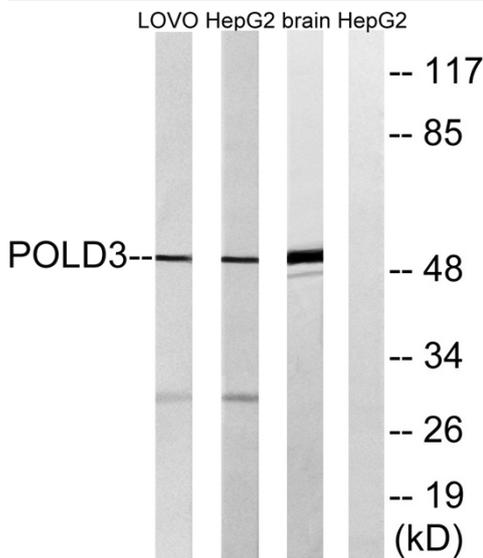
**Usage suggestions**

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.

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