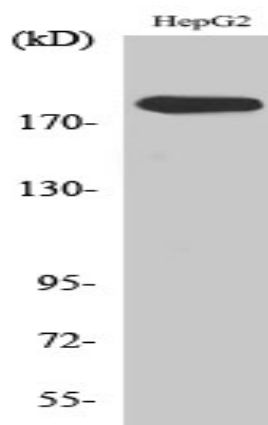


**DNA pol  $\alpha$  Polyclonal Antibody**

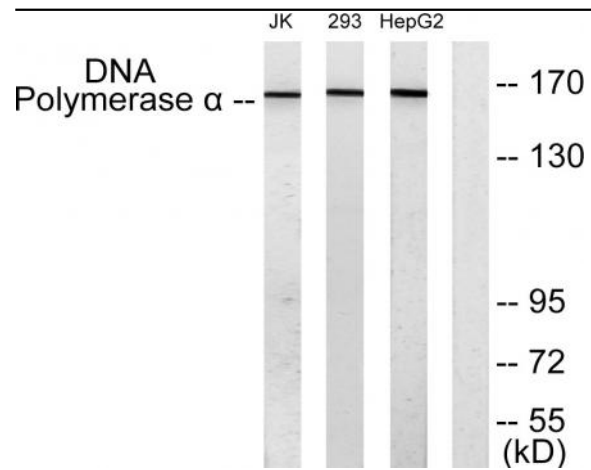
<b>Catalog No :</b>	YT1368
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	DNA pol $\alpha$
<b>Fields :</b>	>>DNA replication
<b>Gene Name :</b>	POLA1
<b>Protein Name :</b>	DNA polymerase alpha catalytic subunit
<b>Human Gene Id :</b>	5422
<b>Human Swiss Prot No :</b>	P09884
<b>Mouse Swiss Prot No :</b>	P33609
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human DNA Polymerase alpha. AA range:81-130
<b>Specificity :</b>	DNA pol $\alpha$ Polyclonal Antibody detects endogenous levels of DNA pol $\alpha$ 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>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

<b>Observed Band :</b>	165kD
<b>Cell Pathway :</b>	Purine metabolism;Pyrimidine metabolism;DNA replication;
<b>Background :</b>	This gene encodes the catalytic subunit of DNA polymerase, which together with a regulatory and two primase subunits, forms the DNA polymerase alpha complex. The catalytic subunit plays an essential role in the initiation of DNA replication. [provided by RefSeq, Mar 2010],
<b>Function :</b>	catalytic activity:Deoxynucleoside triphosphate + DNA(n) = diphosphate + DNA(n+1).,function:Polymerase alpha in a complex with DNA primase is a replicative polymerase.,miscellaneous:In eukaryotes there are five DNA polymerases: alpha, beta, gamma, delta, and epsilon which are responsible for different reactions of DNA synthesis.,PTM:A 165 kDa form is probably produced by proteolytic cleavage at Lys-124.,similarity:Belongs to the DNA polymerase type-B family.,subunit:Interacts with SV40 Large T antigen; this interaction allows viral DNA replication.,
<b>Subcellular Location :</b>	Nucleus . Cytoplasm, cytosol . In the cytosol, colocalizes with RNA:DNA hybrids with a speckled pattern. .
<b>Sort :</b>	5173
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

## Products Images



Western Blot analysis of various cells using DNA pol  $\alpha$  Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HepG2, 293, and Jurkat cells, using DNA Polymerase alpha Antibody. The lane on the right is blocked with the synthesized peptide.