

**DNA pol  $\delta$  cat rabbit pAb****Cat#: orb769518 (Manual)**

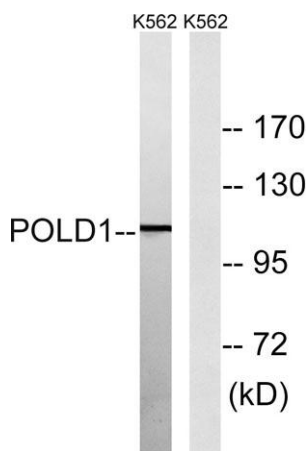
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<b>Product Name</b>	DNA pol $\delta$ cat rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human POLD1. AA range:1051-1100
<b>Specificity</b>	DNA pol $\delta$ cat Polyclonal Antibody detects endogenous levels of DNA pol $\delta$ cat protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	DNA polymerase delta catalytic subunit
<b>Gene Name</b>	POLD1
<b>Cellular localization</b>	Nucleus . Colocalizes with PCNA and POLD3 at S phase replication sites (PubMed:11595739). After UV irradiation, recruited to DNA damage sites within 2 hours, independently on the cell cycle phase, nor on PCNA ubiquitination. This recruitment requires POLD3, PCNA and RFC1-replication factor C complex (PubMed:20227374, PubMed:22801543). .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	110 124kD
<b>Human Gene ID</b>	5424
<b>Human Swiss-Prot Number</b>	P28340
<b>Alternative Names</b>	POLD1; POLD; DNA polymerase delta catalytic subunit; DNA polymerase subunit delta p125

## 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],



Western blot analysis of lysates from K562 cells, using POLD1 Antibody. The lane on the right is blocked with the synthesized peptide.