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[Primary Antibody]

Rabbit Anti-DNA Primase antibody

Catalog Number: SL14357R

FOR RESEARCH USE ONLY

[DATASHEET]

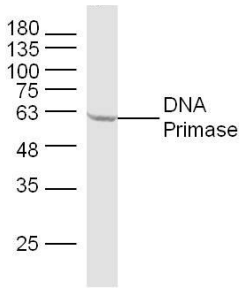
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DNA Primase
Immunogen:	KLH conjugated synthetic peptide derived from human DNA Primase: 51-150/509
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Pig)
Predicted MW.:	59kDa
Subcellular Location:	The nucleus
Background:	This gene encodes the 58 kilodalton subunit of DNA primase, an enzyme that plays a key role in the replication of DNA. The encoded protein forms a heterodimer with a 49 kilodalton subunit. This heterodimer functions as a DNA-directed RNA polymerase to synthesize small RNA primers that are used to create Okazaki fragments on the lagging strand of the DNA. [provided by RefSeq, Sep 2013] **Function:** DNA primase synthesizes small ribonucleotide primers for the initiation of DNA replication. The eukaryotic primase is a heterodimer of a small and a large subunit, p49 and p58 respectively. These two subunits purify as a complex tightly bound to DNA polymerase alpha. This tight association implicates polymerase alpha as the lagging-strand DNA polymerase in replication. Uniquely, primases are able to synthesize nucleotides de novo on a template by the formation of an initial dinucleotide. DNA primase initiates synthesis with a triphosphate purine moiety at the 5'-end. After synthesis of 7-

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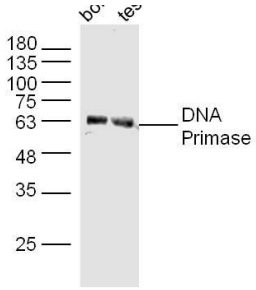
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	10 ribonucleotides, the primer template is translocated intramolecularly to the active site of the DNA polymerase alpha subunit. The p49 subunit of DNA primase contains the catalytic active site. The human primase subunits are 90% identical in amino acid sequence to the mouse homologs. **Subunit:** Heterodimer of a small subunit and a large subunit. **Similarity:** Belongs to the eukaryotic-type primase large subunit family. **Database links:** **Entrez Gene:** 5558 Human **Entrez Gene:** 301323 Rat GenBank: NP_000938.2 Human Omim: 176636 Human **SwissProt:** P49643 Human **SwissProt:** O89044 Rat **Unigene:** 654580 Human

[VALIDATION IMAGES]



Protein: K562(human) lysates at 30ug;
Primary: rabbit Anti-DNA primase (SL14357R) at 1:300;
Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000;
Predicted band size:60 kD
Observed band size:60 kD



Sample:
bone (mouse) Lysate at 40 ug
testis (Mouse) Lysate at 40 ug
Primary: Anti-DNA primase (SL14357R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 59 kD
Observed band size: 63 kD

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